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THE NIMBUS 5 DATA CATALOG

VOLUME 10

1 JUNE 1974 THROUGH 31 JULY 1974
DATA ORBITS 7205 THROUGH 8023

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THE NIMBUS 5 DATA CATALOG

Volume 10

**1 June 1974 through 31 July 1974
Data Orbits 7205 through 8023**

Prepared by

**Management and Technical Services Company
Beltsville, Maryland**

For the

ERTS/Nimbus Project

October 1974

**GODDARD SPACE FLIGHT CENTER
Greenbelt, Maryland**

FOREWORD

This is the tenth volume of a series of catalogs published by the National Aeronautics and Space Administration to document data acquired from the Nimbus 5 meteorological satellite. This volume covers the period from 1 June 1974 through 31 July 1974. Subsequent catalogs will contain documentation for succeeding periods throughout the useful lifetime of Nimbus 5.

Background information concerning the Nimbus 5 meteorological satellite system and a description of the experiments and data formats have been published separately in The Nimbus 5 User's Guide. Post-launch User's Guide information changes and corrections are included in the data catalogs. The Nimbus 5 catalogs present the type of data available, anomalies in the data, if any, and geographic location and time of the data.

The assembly and editing of this catalog was accomplished by the Management and Technical Services Company (MATSCO), Beltsville, Maryland, under contract number NAS 5-20694 with the Goddard Space Flight Center, NASA, Greenbelt, Maryland.

J. Sargent
Project Manager
ERTS/Nimbus Project
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TABLE OF CONTENTS

	Page
FOREWORD	iii
SECTION 1. SUMMARY OF OPERATIONS	1-1
1.1 Introduction	1-1
1.2 The Temperature Humidity Infrared Radiometer (THIR) Subsystem	1-3
1.3 The Surface Composition Mapping Radiometer (SCMR) Experiment	1-3
1.4 The Electrically Scanning Microwave Radiometer (ESMR) Experiment	1-3
1.5 The Infrared Temperature Profile Radiometer (ITPR) Experiment	1-4
1.6 The Selective Chopper Radiometer (SCR) Experiment	1-4
1.7 The Nimbus E Microwave Spectrometer (NEMS) Experiment	1-4
SECTION 2. ORBITAL ELEMENTS AND DATA AVAILABILITY ON-OFF TIMES	2-1
SECTION 3. ELECTRICALLY SCANNING MICROWAVE RADIOMETER DISPLAYS	3-1
SECTION 4. TEMPERATURE HUMIDITY INFRARED RADIOMETER MONTAGES	4-1
4.1 THIR Nighttime Montages	4-3
4.2 THIR Daytime Montages	4-127
SECTION 5. CORRECTIONS TO THE NIMBUS 5 USER'S GUIDE	5-1
5.1 THIR Corrections to the User's Guide	5-1
5.2 SCMR Corrections to the User's Guide	5-3
5.3 ESMR Corrections to the User's Guide	5-3
5.4 ITPR Corrections to the User's Guide	5-6
5.5 SCR Corrections to the User's Guide	5-9
5.6 NEMS Corrections to the User's Guide	5-10

LIST OF FIGURES

Figure		Page
2-1	World Map	2-3
5-1	Weighting Functions of the Temperature Sounding Channels of the Nimbus 5 SCR	5-11

LIST OF TABLES

Table		Page
1-1	Nimbus 5 Catalog Documentation Summary	1-1
1-2	Nimbus 5 Pitch Bias History from Orbit 7205 (1 June 1974) through Orbit 8023 (31 July 1974)	1-2
2-1	Nimbus 5 Brouwer Mean Orbital Elements for June and July 1974	2-1
2-2	Data Availability On-Off Times	2-5
3-1	ESMR Gray Scale Steps versus Brightness Temperature for Each of the Three Swaths in the ESMR Pictorial Displays	3-2
3-2	ESMR Display Format and Gray Scale Brightness Temperature Programs for June and July 1974	3-4
4-1	Latitude versus Minutes from Ascending or Descending Node	4-2
5-1	THIR Output Voltages versus Equivalent Blackbody Temperatures at Different Bolometer Temperatures for the 11.5 μ m Channel	5-1
5-2	THIR Output Voltages versus Equivalent Blackbody Temperatures at Different Bolometer Temperatures for the 6.7 μ m Channel	5-2
5-3	Constants for Linear Correction of Brightness Temperatures Corresponding to ESMR Beam Positions	5-5
5-4	ITPR Calibration Constants for the Period 12/12/72 - 2/6/73	5-6
5-5	ITPR Calibration Constants for the Period 2/6/73 - 3/31/73	5-7
5-6	ITPR Calibration Constants for the Period 4/1/73 - 5/31/73	5-7
5-7	ITPR Calibration Constants for the Period 6/1/73 - 7/31/73	5-8
5-8	Correction Coefficients γ and $a\gamma$ for the SCR Temperature Sounding Channels	5-10
5-9	SCR B Difference Channel Coefficients β	5-10

SECTION 1

SUMMARY OF OPERATIONS

1.1 Introduction

Nimbus 5 was successfully launched from the Western Test Range, Vandenberg Air Force Base, California at 07 hr. 56 min. 00 sec. on December 11, 1972. After achieving a near circular orbit (1089 km \times 1102 km), all experiments and subsystems were successfully turned on. Data reception, accountability, and processing were intermittent prior to orbit 103 (December 18, 1972) because of engineering evaluation of all spacecraft systems. Table 1-1 is a summary of the documentation for each Nimbus 5 Data Catalog volume 1 through volume 10.

Table 1-1

Nimbus 5 Catalog Documentation Summary

Volume	Dates	Orbits
1	19 Dec. 72 - 31 Jan. 73	104 - 693
2	1 Feb. 73 - 31 Mar. 73	694 - 1485
3	1 Apr. 73 - 31 May 73	1486 - 2304
4	1 June 73 - 31 July 73	2305 - 3123
5	1 Aug. 73 - 30 Sept. 73	3124 - 3942
6	1 Oct. 73 - 30 Nov. 73	3943 - 4761
7	1 Dec. 73 - 31 Jan. 74	4762 - 5593
8	1 Feb. 74 - 31 Mar. 74	5594 - 6385
9	1 Apr. 74 - 31 May 74	6386 - 7204
10	1 June 74 - 31 July 74	7205 - 8023

The total operating time for each experiment from launch through orbit 8023 was:

ESMR	12,066 hours	
ITPR	12,069 hours	
NEMS	12,071 hours	
SCR	12,069 hours	
THIR	12,071 hours	
SCMR: direct	29 hours	(No usable SCMR data was
recorded	6 hours	recorded after orbit 320)

During this catalog period, the spacecraft attitude was biased in pitch between +2.6 and +2.9 degrees. Table 1-2 shows when each was used. Information about pitch bias from a previous period may be found in the catalog for that period.

Table 1-2

Nimbus 5 Pitch Bias History
from orbit 7205 (1 June 74) through orbit 8023 (31 July 74)

DATE	ORBIT	+2.6°	+2.9°	DATE	ORBIT	+2.6°	+2.9°
1 June	7205		X	29 June	7593		X
2 June	7228	X		3 July	7637	X	
4 June	7247		X	4 July	7652		X
6 June	7281	X		7 July	7699	X	
7 June	7297		X	8 July	7713		X
11 June	7339	X		17 July	7833	X	
12 June	7357		X	18 July	7848		X
15 June	7397	X		22 July	7901	X	
16 June	7413		X	24 July	7918		X
19 June	7448	X		27 July	7965	X	
20 June	7464		X	28 July	7978		X
23 June	7512	X		31 July	8021	X	
25 June	7530		X	31 July	8023	X	
28 June	7579	X					

The nadir location coordinates on ESMR, ITPR, SCR, and NEMS tapes, and the grid points on THIR and ESMR images are routinely adjusted for pitch bias. Any image grid still in error by more than 60 n. m. is identified in Table 2-2 under the column headed "Grid Correction". THIR and ESMR grid print maps, available through NSSDC, are also adjusted to match data points and their coordinates.

Roll and yaw attitude control have been within nominal limits during this period.

Data quality from both HDRSS recorders continues to be good. However, since June 1973 the amplitude of the flutter on HDRSS A has been twice that of HDRSS B. Thus, HDRSS A use is generally restricted to one orbit per day during the blind period when two tape recorders are required for global coverage.

The power, command/clock, Versatile Information Processor (VIP), and thermal subsystem performances continued to be satisfactory during this period.

Subsections 1.2 through 1.7 of this catalog summarize the operational highlights of the individual experiments and call attention to known data anomalies. Section 2 lists the times data was recorded and is available for study for each experiment. Sections 3 and 4 show ESMR and THIR imagery, while Section 5 presents corrections to The Nimbus 5 User's Guide.

The user is referred to The Nimbus 5 User's Guide for a complete description of each experiment and to Section 1.7 of that Guide for the requesting procedure and sources for all data. Sections 2, 3, and 4 of this Data Catalog should help the user to select data to meet his needs.

1.2 The Temperature Humidity Infrared Radiometer (THIR) Subsystem

The quality of THIR data from both channels has been good. Root mean square (rms) THIR temperature variations, due to HDRSS tape recorder and system noise, are near 2.4°K for HDRSS B and 3.6°K for HDRSS A. The higher HDRSS A value is attributed to higher flutter in its recorder system.

1.3 The Surface Composition Mapping Radiometer (SCMR) Experiment

The SCMR experiment collected and returned approximately 35 hours of instrument data during the first 320 orbits. Intermittent loss of a scan mirror synchronization pulse caused a loss of useful data output whenever this occurred. This synchronization problem progressed to the point where no useful data could be obtained after orbit 320 (4 January 1973).

Users who desire SCMR data or information should write to Dr. Warren G. Hovis, Code 940, Goddard Space Flight Center, Greenbelt, Maryland 20771.

1.4 The Electrically Scanning Microwave Radiometer (ESMR) Experiment

The ESMR instrument performance during this period has been satisfactory, although there were times, as shown in Table 3-2 in Section 3, when the instrument operated in a reduced data output mode.

In the reduced data output level mode the instrument brightness temperature response range is between 110°K and 220°K. Its normal response range is between 110°K and about 300°K. Thus, the effect of the malfunction is to narrow the range to which the instrument can respond. There is no way to recover temperature data above 220°K. However, by applying offset corrections, temperature values below 220°K are considered to be accurate to within 10°K. Because many polar and atmospheric phenomena have brightness temperature lower than 220°K, investigations of these phenomena will be only slightly affected by the loss of high brightness temperatures.

On the ESMR image displays (Section 3) the effect of the temperature offset is to completely eliminate data information in swath 3, since its entire display temperature range, 254°K to 290°K, is above the new upper limit. Swath 2 temperature values range from 194°K to 266°K; thus, those values above 220°K are not shown at their true temperature. The offset does not affect values of swath 1, as its temperature limits are 110°K and 200°K.

A semi-quantitative calibration algorithm has been developed for these offset data. These calibrated data, as well as the normal data, are available through NSSDC as described in The Nimbus 5 User's Guide.

1.5 The Infrared Temperature Profile Radiometer (ITPR) Experiment

The ITPR instrument operated in the nadir mode except for once a week space view and housing view calibration data. Also, due to small shifts in gain levels, the instrument required repoling about once a week. Sensor outputs from all seven channels have been normal.

1.6 The Selective Chopper Radiometer (SCR) Experiment

The SCR instrument has remained in the normal operating mode since shortly after launch. Useful data continues to be received from all A, B, and C channels. The D channels, when in high gain, have been affected by noise since orbit 3124 (1 August 1973). Since 21 September 1973 the data has been unusable. The problem is attributed to faulty relay contacts.

The SCR data is transmitted daily from Goddard Space Flight Center to the experimenter at Oxford, England. After processing and calibration, the data is output in several forms for analysis. Previous volumes of this catalog series show several output forms and provide discussion of some of the results from analysis of the SCR data.

1.7 The Nimbus E Microwave Spectrometer (NEMS) Experiment

The NEMS instrument continued to perform well during this catalog period. The experimenter at MIT, Cambridge, Massachusetts, continues to receive all NEMS data and is using it for research. Examples and analysis of some of the output products are in volumes 1 through 3 of this catalog series.

SECTION 2

THE ORBITAL ELEMENTS AND DATA AVAILABILITY ON-OFF TIMES

The Nimbus 5 Brouwer Mean orbital elements for selected epochs during June and July 1974 are listed in Table 2-1.

Table 2-1

Nimbus 5 Brouwer Mean Orbital Elements
for June and July 1974

Epoch	Universal Time	11 June 74 00 00 00	23 June 74 00 00 00	9 July 74 00 00 00	23 July 74 00 00 00
Semi-Major Axis	Km	7473.488	7473.485	7473.482	7473.479
Eccentricity		.000843	.000807	.000790	.000801
Inclination	Degrees	99.926	99.925	99.922	99.921
Argument of Perigee	Degrees	352.707	322.705	281.574	244.541
Right Ascension of Ascending Node	Degrees	71.122	82.930	98.671	112.443
Height of Perigee	Km	1089.02	1089.29	1089.41	1089.33
Height of Apogee	Km	1101.62	1101.35	1101.22	1101.30
Anomalistic Period	Minutes	107.1624	107.1624	107.1623	107.1621
Motion of Perigee	Deg. per Day	-2.4353	-2.4357	-2.4361	-2.4360

The data availability on-off times (Table 2-2) list the times when the data from each instrument was recorded on a HDRSS.

THIR orbital coverage in Table 2-2 is divided between daytime and nighttime data. The THIR data is normally recorded simultaneously from both 6.7 μm and 11.5 μm channels. Therefore, the listed on-off times apply to both channels.

A THIR data orbit is defined as beginning and ending at the night-day terminator. Thus, the daytime data orbit extends from the night-day terminator to the day-night terminator. Each daytime THIR data orbit is assigned the orbit number of the ascending node which occurs during that portion of the orbit. The same orbit number is assigned also to the succeeding nighttime data orbit.

The "INT ORBIT & STDN" identify the orbit in which the satellite is interrogated and the ground station to which the satellite data is transmitted. The letter "R" denotes Rosman, North Carolina; the letter "A" denotes Fairbanks, Alaska.

The "HDRSS" identifies the satellite tape recorder, either A or B.

The "THIR GRID CORR" columns are used to indicate an image grid error in latitude and longitude whenever either is in error by more than one degree of great circle arc (60 n. m.). Latitude errors are suffixed by an N or S; longitude errors, by an E or W. An N or S indicates the grid should be moved up or down by the amount shown to obtain a good fit of the grid to the geography. An E or W indicates the grid should be moved right or left, at the equator, by the amount shown.

Ascending node times and longitudes are the times and longitudes at which the satellite crosses the equator in the northbound direction. These crossings always occur during the daytime portion of the orbit. The descending nodes and times refer to the southbound crossings, which occur during the nighttime portion of the orbit.

ESMR, NEMS, SCR, and ITPR are normally on all the time. Their sensory information is recorded on a HDRSS between interrogations, and their on-and-off times define the total record times between interrogations. An interrogation orbit is the orbit during which previously recorded data is transmitted to a ground station. This data will be from segments of two or more data orbits as defined above for THIR. To determine the orbital coverage of the data from any interrogation, the on-and-off times should be matched with the appropriate ascending or descending node listed with the THIR information on the same page of Table 2-2. Coverage can then be determined as described below.

The "DATA ORBIT" indicator in the ESMR table is given only for reference purposes. It is the number which appears on the data display image, samples of which are reproduced in Section 3, and identifies the last data orbit on each display. It should not be confused with the THIR data orbit number.

Table 2-2 together with the World Map (Figure 2-1) and the vellum Subsatellite Tracks Overlay attached to the back of this catalog, can be used to determine approximate geographic coverages.

A Subsatellite Tracks Overlay is correctly oriented with the World Map when the ascending or descending node line on the overlay coincides with the 0-degree latitude (equator) line of the World Map. Orbital coverage is determined by placing an orbit track on the world map at the appropriate ascending node (for daytime) or descending node (for nighttime) longitude for the orbit of interest.

The Subsatellite Tracks Overlay contains 14 correctly spaced tracks, which end at the approximate earth day-night transitions. The tracks contain time ticks spaced 5

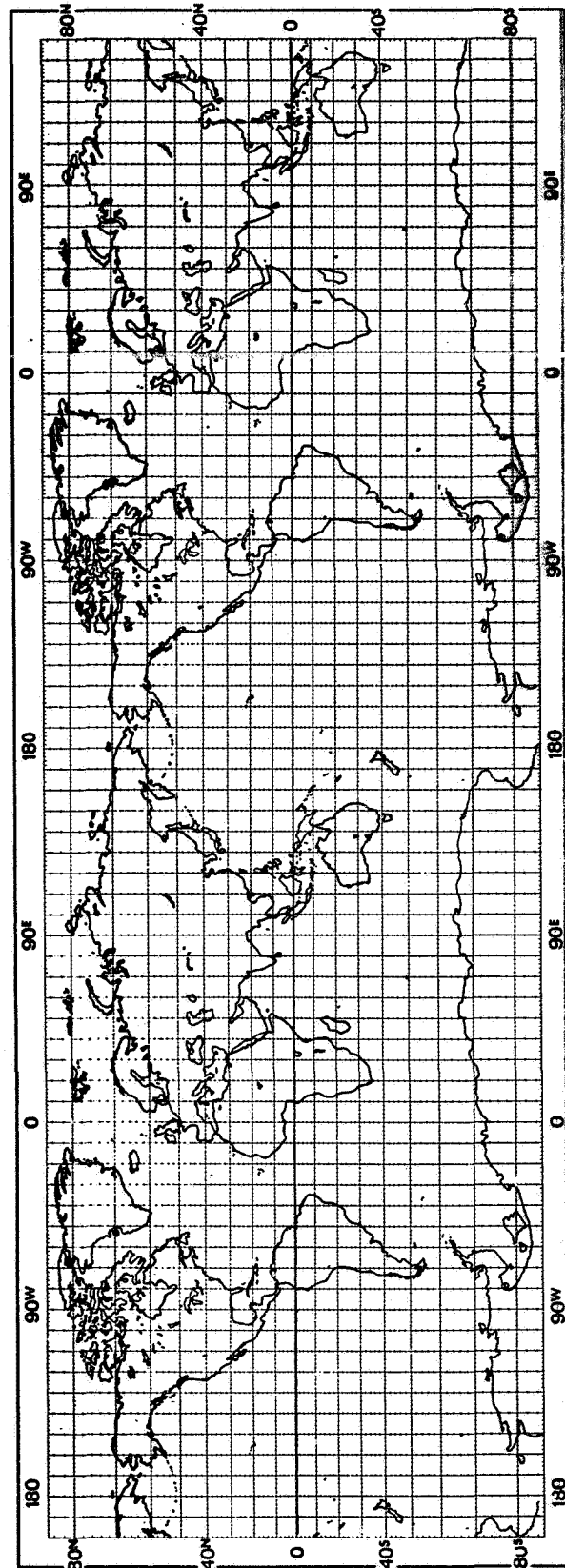


Figure 2-1 World Map

minutes apart, appropriately annotated at the edge of the overlay, referenced from the equator. Times in minutes from equator crossings for all or part of a particular orbit are calculated by adding to or subtracting from the ascending or descending node time listed for that orbit in the Data Availability On-Off Times Table.

The nature and format of the data to be available from each experiment are explained in detail in the respective sections of The Nimbus 5 User's Guide. The appropriate sources for requesting the various data types are listed in Section 1.7 of the same manual.

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
1 JUNE 1974

THIR						ESMR					
-----						-----					
DATA	11.5 + 6.7		INT	H	THIR	ASC. AND				INT	H
ORBIT	ON	OFF	ORBIT	D	GRID	DESC.	NODE			ORBIT	D
	HRMN	HRMN	STDN	R	CORR	TIME	LONG			STDN	R
				S	LALJ	HRMNSS	DEG				S
DAYTIME THIR						ASC. NODE					
7205						010911	E154.9				
7206	0238	0326	7206R	B		025628	E128.1				
7207	0425	0514	7207R	B		044344	E101.3				
7208	0612	0701	7208R	B		063101	E074.5				
7209						081817	E047.7				
7210						100534	E020.8				
7211	1134	1220	7211A	B		115250	W006.0				
7212	1321	1405	7212A	B		134006	W032.8				
7213	1509	1548	7213A	B		152723	W059.7				
7214	1656	1732	7214A	B		171439	W086.5				
7214	1738	1745	7215A	B							
7215	1843	1915	7215A	B		190156	W113.3				
7215	1922	1932	7216A	B							
7216	2030	2103	7216A	B		204912	W140.1				
7216	2110	2119	7217A	B							
7217	2218	2251	7217A	B		223629	W166.9				
NIGHTTIME THIR						DESC. NODE					
7205	0150	0238	7206R	B		020244	W038.5				
7206	0326	0335	7206R	B		035001	W065.3				
7206	0342	0425	7207R	B							
7207*	0514	0519	7207R	B		053717	W092.1				
7207	0525	0612	7208R	B							
7208	0701	0708	7208R	B		072434	W119.0				
7209						091150	W145.8				
7210	1044	1134	7211A	B		105907	W172.6				
7211	1227	1321	7212A	B		124623	E160.6				
7212	1411	1509	7213A	B		143340	E133.8				
7213	1557	1656	7214A	B		162056	E107.0				
7214	1745	1843	7215A	B		180812	E080.1				
7215	1932	2030	7216A	B		195529	E053.3				
7216	2119	2218	7217A	B		214245	E026.5				
7217						233002	W000.3				
* NO 11.5 DATA											
						NEMS - SCR - ITPR					

						0150	0337	7206R	B		
						0342	0521	7207R	B		
						0526	0707	7208R	B		
						0715	0849	7209A	B		
						0853	1039	7210A	B		
						1044	1222	7211A	B		
						1227	1407	7212A	B		
						1411	1550	7213A	B		
						1555	1734	7214A	B		
						1738	1917	7215A	B		
						1921	2104	7216A	B		
						2109	2252	7217A	B		

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
2 JUNE 1974

THIR										ESMR									
-----										-----									
11.5 + 6.7		INT	H	THIR	ASC. AND							INT	H						
DATA	ON	OFF	ORBIT	D	GRID	DESC.	NODE			DATA	ON	OFF	ORBIT	D					
ORBIT	HRMN	HRMN	STON	R	CORR	TIME	LONG			ORBIT	HRMN	HRMN	STON	R					
				S	LALO	HRMNSS	DEG							S					
DAYTIME THIR										ASC. NODE									
7218						002345	E166.3			7219	0055	0243	7220R	A					
7219	0152	0241	7220R	A		021102	E139.4			7220	0243	0436	7220R	B					
7220	0340	0428	7220R	B		035818	E112.6			7221	0441	0622	7221R	B					
7221	0527	0616	7221R	B		054534	E085.8			7222	0627	0806	7223A	B					
7222	0714	0803	7223A	B		073251	E059.0			7223	0805	0951	7223A	A					
7223	0901	0950	7223A	A		092007	E032.2			7224	0953	1134	7224A	B					
7224	1049	1132	7224A	B		110724	E005.3			7225	1139	1322	7225A	B					
7225	1236	1320	7225A	B		125440	W021.5			7226	1328	1510	7226A	B					
7226	1423	1508	7226A	B		144157	W048.3			7227	1515	1650	7227A	B					
7227	1610	1649	7227A	B		162913	W075.1			7228	1655	1833	7228A	B					
7228	1758	1832	7228A	B		181629	W101.9			7229	1838	2016	7229A	B					
7228	1838	1847	7229A	B						7230	2022	2206	7230A	B					
7229	1945	2015	7229A	B		200346	W128.8			7231	2211	0009	7234R	A					
7229	2021	2034	7230A	B															
7230	2132	2204	7230A	B		215102	W155.6												
7230	2211	2221	7234R	A															
7231	2320	0007	7234R	A		233819	E177.6												
NIGHTTIME THIR										DESC. NODE									
7218	0055	0152	7220R	A		011718	W027.1			NEMS - SCR - ITPR									
7219	0243	0340	7220R	B		030435	W054.0			0055	0243	7220R	A						
7220*	0428	0434	7220R	B		045151	W080.8			0242	0436	7220R	B						
7220	0441	0527	7221R	B						0441	0622	7221R	B						
7221	0627	0714	7223A	B		063908	W107.6			0627	0806	7223A	B						
7222	0806	0901	7223A	A		082624	W134.4			0805	0951	7223A	A						
7223**	0953	1049	7224A	B		101341	W161.2			0953	1134	7224A	B						
7224	1139	1236	7225A	B		120057	E172.0			1139	1322	7225A	B						
7225	1328	1423	7226A	B		134813	E145.1			1327	1510	7226A	B						
7226	1515	1610	7227A	B		153530	E118.3			1515	1651	7227A	B						
7227	1659	1758	7228A	B		172246	E091.5			1655	1833	7228A	B						
7228	1847	1945	7229A	B		191003	E064.7			1838	2016	7229A	B						
7229	2034	2132	7230A	B		205719	E037.9			2021	2206	7230A	B						
7230	2221	2320	7234R	A		224436	E011.0			2211	0008	7234R	A						
7231						003152	W015.8												
*NO 11.5 DATA																			
**DIFFERENT 6.7 TIMES																			
7223	1000	1049	7224A	B															

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
3 JUNE 1974

THIR										ESMR									
-----										-----									
		11.5 + 6.7		INT	H	THIR	ASC. AND							INT	H				
DATA	ON	OFF		ORBIT	D	GRID	DESC.	NODE		DATA	ON	OFF		ORBIT	D				
ORBIT	HRMN	HRMN	+		R	CORR	TIME	LONG		ORBIT	HRMN	HRMN	+		R				
			STDN	S	LALO		HRMNSS	DEG					STDN	S					
DAYTIME THIR										ASC. NODE									
7232							012535	E150.8		7233	0157	0353	7233R	B					
7233	0254	0343	7233R	B			031252	E124.0		7234	0400	0538	7234R	B					
7234	0441	0530	7234R	B			050008	E097.2		7235	0542	0717	7235A	B					
7235	0629	0716	7235A	B			064725	E070.3		7236	0723	0906	7236A	B					
7236	0816	0905	7236A	B			083441	E043.5		7237	0911	1055	7237A	B					
7237	1003	1052	7237A	B			102157	E016.7		7238	1059	1240	7238A	B					
7238	1151	1239	7238A	B			120914	W010.1		7239	1245	1424	7239A	B					
7239	1338	1423	7239A	B			135630	W036.9		7240	1430	1609	7240A	B					
7240	1525	1607	7240A	B			154347	W063.8		7241	1615	1753	7241A	B					
7241	1712	1751	7241A	B			173103	W090.6		7242	1758	1932	7242A	B					
7242	1900	1931	7242A	B			191820	W117.4		7243	1938	2120	7243A	B					
7242	1938	1948	7243A	B						7244	2126	2308	7244A	B					
7243	2047	2119	7243A	B			210536	W144.2											
7243	2126	2136	7244A	B															
7244	2234	2308	7244A	B			225252	W171.0											
NIGHTTIME THIR										DESC. NODE									
7232	0157	0254	7233R	B			021909	W042.6								NEMS - SCR - ITPR			
7233	0343	0353	7233R	B			040625	W069.4								-----			
7233	0400	0441	7234R	B						0156	0353	7233R	B						
7234	0530	0536	7234R	B						0400	0538	7234R	B						
7234	0542	0629	7235A	B			055341	W096.2		0542	0718	7235A	B						
7235	0723	0816	7235A	B						0723	0906	7236A	B						
7236	0911	1003	7237A	B			074058	W123.1		0911	1054	7237A	B						
7237	1059	1151	7238A	B			092814	W149.9		1059	1240	7238A	B						
7238	1246	1338	7239A	B			111531	W176.7		1246	1424	7239A	B						
7239	1429	1525	7240A	B			130247	E156.5		1429	1608	7240A	B						
7240	1614	1712	7241A	B			145004	E129.7		1614	1752	7241A	B						
7241	1801	1900	7242A	B			163720	E102.9		1757	1932	7242A	B						
7242	1948	2047	7243A	B			182437	E076.0		1938	2121	7243A	B						
7243	2136	2234	7244A	B			201153	E049.2		2126	2309	7244A	B						
7244							215910	E022.4											
							234626	W004.4											

NEMS - SCR - ITPR

0156	0353	7233R	B
0400	0538	7234R	R
0542	0718	7235A	B
0723	0906	7236A	B
0911	1054	7237A	B
1059	1240	7238A	B
1246	1424	7239A	B
1429	1608	7240A	B
1614	1752	7241A	B
1757	1932	7242A	B
1938	2121	7243A	B
2126	2309	7244A	B

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
4 JUNE 1974

THIR										ESMR									
-----										-----									
		11.5 + 6.7		INT	H	THIR	ASC. AND					INT	H						
DATA	ON	OFF	ORBIT	D	GRID	DESC. NODE	TIME	LONG		DATA	ON	OFF	ORBIT	D		TIME	LONG		
ORBIT	HRMN	HRMN	STDN	R	CORR	HRMNS	DEG			ORBIT	HRMN	HRMN	STDN	R		HRMNS	DEG		
DAYTIME THIR										ASC. NODE									
7245						004009	E162.2			7246	0112	0300	7247R	A					
7246	0209	0257	7247R	A		022725	E135.3			7247	0258	0452	7247R	B					
7247	0356	0445	7247R	B		041442	E108.5			7248	0458	0640	7248R	B					
7248	0543	0632	7248R	B		060158	E081.7			7249	0646	0821	7249A	B					
7249	0731	0819	7249A	B		074915	E054.9			7250	0827	1007	7250A	B					
7250	0918	1006	7250A	B		093631	E028.1			7251	1012	1152	7251A	B					
7251	1105	1150	7251A	B		112448	E001.2			7252	1157	1340	7252A	B					
7252	1252	1338	7252A	B		131104	W025.6			7253	1345	1525	7253A	B					
7253	1440	1523	7253A	B		145820	W052.4			7254	1530	1708	7254A	B					
7254	1627	1706	7254A	B		164537	W079.2			7255	1715	1846	7255A	B					
7255	1814	1845	7255A	B		183253	W106.0			7256	1900	2039	7257A	B					
7255	1851	1903	7257A	B						7257	2039	2221	7257A	A					
7256	2001	2037	7257A	B		202010	W132.9			7258	2230	0028	7260R	A					
7256	2039	2050	7257A	A															
7257	2149	2220	7257A	A		220726	W159.7												
7257	2226	2238	7260R	A															
7258	2336	0025	7260R	A		235443	E173.5												
NIGHTTIME THIR										DESC. NODE									
7245	0112	0209	7247R	A		013342	W031.2			NEMS - SCR - ITPR									
7246	0258	0356	7247R	B		032059	W058.1			0112	0300	7247R	A						
7247	0445	0451	7247R	B		050815	W084.9			0258	0453	7247R	B						
7247	0458	0543	7248R	B						0458	0641	7248R	B						
7248	0632	0639	7248R	B		065532	W111.7			0646	0822	7249A	B						
7248	0646	0731	7249A	B						0827	1007	7250A	B						
7249	0827	0918	7250A	B		084248	W138.5			1012	1152	7251A	B						
7250	1012	1105	7251A	B		103005	W165.3			1157	1340	7252A	B						
7251	1210	1252	7252A	B		121721	E167.9			1346	1524	7253A	B						
7252	1346	1440	7253A	B		140438	E141.0			1529	1708	7254A	B						
7253	1529	1627	7254A	B		155154	E114.2			1714	1847	7255A	B						
7254	1716	1814	7255A	B		173910	E087.4			1851	2039	7257A	B						
7255	1903	2001	7257A	B		192627	E060.6			2039	2222	7257A	A						
7256	2050	2149	7257A	A		211343	E033.8			2226	0029	7260R	A						
7257	2238	2336	7260R	A		230100	E006.9												
7258						004816	W019.9												

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
5 JUNE 1974

THIR										ESMR									
		11.5 + 6.7		INT	H	THIR	ASC. AND					INT	H						
DATA	ON	OFF	ORBIT	D	GRID	DESC. NODE	TIME	LONG		DATA	ON	OFF	ORBIT	D	GRID	DESC. NODE	TIME	LONG	
ORBIT	HRMN	HRMN	STDN	R	CORR	HRMNSS	DEC			ORBIT	HRMN	HRMN	STDN	R	CORR	HRMNSS	DEC		
DAYTIME THIR										ASC. NODE									
7259						014159	E146.7			7260	0220	0408	7260R	B					
7260	0311	0359	7260R	B		032916	E119.9			7261	0413	0555	7262A	B					
7261	0458	0547	7262A	B		051632	E093.1			7262	0555	0740	7263A	A					
7262	0645	0734	7263A	A		070348	E066.2			7263	0740	0920	7263A	B					
7263	0832	0918	7263A	B		085105	E039.4			7264	0925	1111	7264A	B					
7264	1020	1109	7264A	B		103821	E012.6			7265	1116	1256	7265A	B					
7265	1207	1255	7265A	B		122538	W014.2			7266	1301	1439	7266A	B					
7266	1354	1437	7266A	B		141254	W041.0			7267	1444	1622	7267A	B					
7267	1542	1621	7267A	B		160011	W067.9			7268	1627	1805	7268A	B					
7268	1729	1805	7268A	B		174727	W094.7			7269	1812	1949	7269A	B					
7268*	1812	1818	7269A	B						7270	1958	2136	7270A	B					
7269*	1916	1948	7269A	B		193443	W121.5												
7269	1958	2005	7270A	B															
7270	2103	2135	7270A	B		212200	W148.3												
7271						230916	W175.1												
*NO 6.7 DATA																			
NIGHTTIME THIR										DESC. NODE									
7259	0220	0311	7260R	B		023533	W046.7			NEMS - SCR - ITPR									
7260	0359	0406	7260R	B		042249	W073.5			0220	0408	7260R	B						
7260	0413	0458	7262A	B						0413	0555	7262A	B						
7261	0547	0552	7262A	B		061006	W100.3			0555	0740	7263A	A						
7261	0555	0645	7263A	A						0740	0920	7263A	B						
7262	0740	0832	7263A	B		075722	W127.2			0925	1111	7264A	B						
7263	0925	1020	7264A	B		094438	W154.0			1116	1256	7265A	B						
7264	1116	1207	7265A	B		113155	E179.2			1301	1439	7266A	B						
7265	1301	1354	7266A	B		131911	E152.4			1444	1622	7267A	B						
7266	1444	1542	7267A	B		150628	E125.6			1627	1806	7268A	B						
7267	1630	1729	7268A	B		165344	E098.8			1812	1949	7269A	B						
7268*	1818	1916	7269A	B		184101	E071.9			1958	2136	7270A	B						
7269	2005	2103	7270A	B		202817	E045.1												
7270						221534	E018.3												
7271						000250	W008.5												
*NO 6.7 DATA																			

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
6 JUNE 1974

THIR										ESMR									
-----										-----									
		11.5 + 6.7		INT	H	THIR	ASC. AND					INT	H						
DATA	ON	OFF		ORBIT	D	GRID	DESC.	NODE		DATA	ON	OFF		ORBIT	D	DATA	ON	OFF	
ORBIT	HRMN	HRMN	STDN	S	LALJ	HRMNSS	DEG			ORBIT	HRMN	HRMN	STDN	S		ORBIT	HRMN	HRMN	STDN
DAYTIME THIR										ASC. NODE									
7272							005633	E158.1		7273	0128	0315	7274R	A		7273	0128	0315	7274R
7273	0225	0314	7274R	A			024349	E131.2		7274	0315	0507	7274R	B		7274	0315	0507	7274R
7274	0412	0501	7274R	B			043106	E104.4		7275	0513	0656	7275R	B		7275	0513	0656	7275R
7275	0600	0649	7275R	B			061822	E077.6		7276	0702	0837	7276A	B		7276	0702	0837	7276A
7276	0747	0835	7276A	B			080539	E050.8		7277	0842	1021	7277A	B		7277	0842	1021	7277A
7277	0934	1020	7277A	B			095255	E024.0		7278	1026	1207	7278A	B		7278	1026	1207	7278A
7278	1122	1205	7278A	B			114011	W002.9		7279	1212	1354	7279A	B		7279	1212	1354	7279A
7279	1309	1353	7279A	B			132728	W029.7		7280	1359	1538	7280A	B		7280	1359	1538	7280A
7280	1456	1536	7280A	B			151444	W056.5		7281	1545	1725	7282A	B		7281	1545	1725	7282A
7281	1643	1723	7282A	B			170201	W083.3		7282	1724	1905	7282A	A		7282	1724	1905	7282A
7281	1724	1732	7282A	A						7283	1914	2056	7284A	B		7283	1914	2056	7284A
7282	1831	1903	7282A	A			184917	W110.1		7284	2055	2239	7284A	A		7284	2055	2239	7284A
7282	1914	1919	7284A	B															
7283	2018	2054	7284A	B			203634	W137.0											
7283*	2055	2107	7284A	A															
7284	2205	2237	7284A	A			222350	W163.8											
7284	2248	2254	7287R	A															
*NO 11.5 DATA																			
NIGHTTIME THIR										DESC. NODE									
7272	0128	0225	7274R	A			015007	W035.3											
7273	0315	0412	7274R	B			033723	W062.2											
7274	0501	0506	7274R	B			052439	W089.0											
7274	0513	0600	7275R	B															
7275	0649	0655	7275R	B			071156	W115.8											
7275	0703	0747	7276A	B															
7276	0842	0934	7277A	B			085912	W142.6											
7277	1026	1122	7278A	B			104629	W169.4											
7278*	1212	1309	7279A	B			123345	E163.7											
7279	1359	1456	7280A	B			142102	E136.9											
7280	1545	1643	7282A	B			160818	E110.1											
7281	1732	1831	7282A	A			175535	E083.3											
7282	1919	2018	7284A	B			194251	E056.5											
7283	2107	2205	7284A	A			213007	E029.7											
7284	2254	2352	7287R	A			231724	E002.8											
* DIFFERENT 6.7 TIMES																			
7278	1219	1309	7279A	B															

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
7 JUNE 1974

THIR										ESMR									
-----										-----									
		11.5 + 6.7		INT	H	THIR	ASC. AND					INT		H					
DATA	ON	OFF		ORBIT	D	GRID	DESC.	NODE		DATA	ON	OFF	ORBIT	D					
ORBIT	HRMN	HRMN	+	R	CORR	TIME	LONG			ORBIT	HRMN	HRMN	+	R					
			STDN	S	LALO	HRMNS	DEG						STDN	S					
DAYTIME THIR										ASC. NODE									
7285	2352	0041	7287R	A		001106	E169.4	7285	2248	0045	7287R	A							
7286						015823	E142.6	7286	0230	0424	7287R	B							
7287	0327	0416	7287R	B		034539	E115.8	7287	0430	0614	7289A	B							
7288	0514	0603	7289A	B		053256	E089.0	7288	0614	0755	7290A	A							
7289	0702	0750	7290A	A		072012	E062.1	7289	0756	0936	7290A	B							
7290	0849	0934	7290A	B		090729	E035.3	7290	0941	1127	7291A	B							
7291	1036	1125	7291A	B		105445	E008.5	7291	1133	1310	7292A	B							
7292	1223	1309	7292A	B		124202	W018.3	7292	1315	1455	7293A	B							
7293	1411	1454	7293A	B		142918	W045.2	7293	1500	1638	7294A	B							
7294	1558	1637	7294A	B		161634	W072.0	7294	1643	1824	7295A	B							
7295	1745	1823	7295A	B		180351	W098.8	7295	1830	2005	7296A	B							
7296	1933	2003	7296A	B		195107	W125.6	7296	2010	2155	7297A	B							
7296	2009	2021	7297A	B				7297	2200	2340	7298A	B							
7297	2120	2153	7297A	B		213824	W152.4												
7297	2200	2209	7298A	B															
7298	2307	2339	7298A	B		232540	W179.2												
7298	2341	2356	7301R	A															
NIGHTTIME THIR										NEMS - SCR - ITPR									
-----										-----									
DATA	ON	OFF		ORBIT	D	GRID	DESC.	NODE		DATA	ON	OFF	ORBIT	D					
ORBIT	HRMN	HRMN	+	R	CORR	TIME	LONG			ORBIT	HRMN	HRMN	+	R					
			STDN	S	LALO	HRMNS	DEG						STDN	S					
7285						010440	W024.0	7285	2248	0045	7287R	A							
7286	0230	0327	7287R	B		025157	W050.8	7286	0230	0424	7287R	B							
7287	0416	0423	7287R	B		043913	W077.6	7287	0430	0615	7289A	B							
7287	0430	0514	7289A	B				7288	0614	0755	7290A	A							
7288	0603	0613	7289A	B		062630	W104.4	7288	0756	0936	7290A	B							
7288	0614	0702	7290A	A				7289	0941	1128	7291A	B							
7289	0756	0849	7290A	B		081346	W131.3	7289	1133	1311	7292A	B							
7290	0941	1036	7291A	B		100103	W158.1	7290	1315	1455	7293A	B							
7291	1133	1223	7292A	B		114819	E175.1	7291	1500	1638	7294A	B							
7292	1315	1411	7293A	B		133536	E148.3	7292	1643	1824	7295A	B							
7293	1500	1558	7294A	B		152252	E121.5	7293	1830	2005	7296A	B							
7294	1647	1745	7295A	B		171008	E094.7	7294	2010	2154	7297A	B							
7295	1834	1933	7296A	B		185725	E067.8	7295	2159	2340	7298A	B							
7296	2021	2120	7297A	B		204441	E041.0												
7297	2209	2307	7298A	B		223158	E014.2												
7298	2356	0054	7301R	A		001914	W012.6												

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
8 JUNE 1974

THIR										ESMR									
-----										-----									
11.5 + 6.7			INT	H	THIR	ASC. AND							INT	H					
DATA	ON	OFF	ORBIT	D	GRID	DESC.	NODE			DATA	ON	OFF	ORBIT	D					
ORBIT	HRMN	HRMN	+	R	CORR	TIME	LONG	HRMNSS	DEG	ORBIT	HRMN	HRMN	+	R					
			STDN	S	LALO								STDN	S					
DAYTIME THIR										ASC. NODE									
7299	0054	0138	7301R	A		011257	E153.9			7299	2341	0140	7301R	A					
7300	0242	0330	7300R	B		030013	E127.1			7300	0140	0339	7300R	B					
7301	0429	0518	7301R	B		044729	E100.3			7301	0348	0524	7301R	B					
7302	0616	0705	7302R	B		063446	E073.5			7302	0529	0713	7302R	B					
7303	0803	0852	7304A	B		082202	E046.7			7303	0718	0855	7304A	B					
7304	0951	1039	7304A	A		100919	E019.9			7304	0853	1040	7304A	A					
7305	1138	1225	7305A	B		115635	W007.0			7305	1042	1226	7305A	B					
7306	1325	1409	7306A	B		134352	W033.8			7306	1231	1410	7306A	B					
7307	1513	1551	7307A	B		153108	W060.6			7307	1416	1553	7307A	B					
7308	1700	1736	7308A	B		171825	W087.4			7308	1558	1736	7308A	B					
7308	1742	1749	7309A	B						7309	1742	1923	7309A	B					
7309	1847	1922	7309A	B		190541	W114.2			7311	2058	2256	7311A	B					
7310	2058	2123	7311A	B		205257	W141.1												
7311	2222	2254	7311A	B		224014	W167.9												
NIGHTTIME THIR										DESC. NODE									
7299	0143	0242	7300R	B		020631	W039.5			NEMS - SCR - ITPR					-----				
7300	0330	0338	7300R	B		035347	W066.3			2341	0140	7301R	A						
7300	0349	0429	7301R	B						0140	0339	7300R	B						
7301	0528	0616	7302A	B		054104	W093.1			0348	0524	7301R	B						
7302	0705	0712	7302R	B		072820	W119.9			0528	0713	7302R	B						
7302	0718	0803	7304A	B						0718	0855	7304A	B						
7303	0854	0951	7304A	A		091536	W146.7			0854	1041	7304A	A						
7304	1042	1138	7305A	B		110253	W173.5			1042	1226	7305A	B						
7305	1232	1325	7306A	B		125009	E159.6			1231	1411	7306A	B						
7306	1416	1513	7307A	B		143726	E132.8			1416	1553	7307A	B						
7307	1601	1700	7308A	B		162442	E106.0			1558	1737	7208A	B						
7308	1749	1847	7309A	B		181159	E079.2			1742	1924	7309A	B						
7309						195915	E052.4			2058	2256	7311A	B						
7310	2123	2222	7311A	B		214632	E025.6												
7311						233348	W001.3												

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
9 JUNE 1974

THIR										ESMR									
-----										-----									
DATA	11.5	+	6.7	INT	H	THIR	ASC. AND			DATA	ON	OFF	INT	H					
ORBIT	HRMN	HRMN	STDN	ORBIT	D	GRID	DESC. NODE			ORBIT	HRMN	HRMN	ORBIT	D					
				+	R	CORR	TIME LONG						+	R					
					S	LALO	HRMNSS DEG						STDN	S					
DAYTIME THIR										ASC. NODE									
7312	0042	0058	7314R	A			002730 E165.3			7313	0042	0240	7314R	A					
7313	0156	0239	7314R	A			021447 E138.5			7314	0240	0437	7314R	B					
7314	0344	0432	7314R	B			040203 E111.7			7315	0446	0626	7315R	B					
7315	0531	0620	7315R	B			054920 E084.8			7316	0632	0807	7316A	B					
7316	0718	0806	7316A	B			073636 E058.0			7317	0813	0955	7317A	B					
7317	0905	0953	7317A	B			092352 E031.2			7318	1000	1144	7318A	B					
7318	1053	1141	7318A	B			111109 E004.4			7319	1148	1325	7319A	B					
7319	1240	1323	7319A	B			125825 W022.4			7320	1331	1512	7320A	B					
7320	1427	1510	7320A	B			144542 W049.3			7321	1519	1654	7321A	B					
7321	1614	1652	7321A	B			163258 W076.1			7322	1700	1838	7322A	B					
7322	1802	1837	7322A	B			182015 W102.9			7323	1843	2022	7323A	B					
7322	1843	1851	7323A	B						7324	2027	2209	7324A	B					
7323	1949	2021	7323A	B			200731 W129.7			7325	2214	2359	7325A	B					
7323	2027	2038	7324A	B															
7324	2136	2208	7324A	B			215448 W156.5												
7324	2214	2225	7325A	B															
7325	2324	2357	7325A	B			234204 E176.7												
7325	0005	0012	7328R	A															
NIGHTTIME THIR										DESC. NODE									
7312	0058	0156	7314R	A			012104 W028.1			NEMS - SCR - ITPR									
7313	0245	0344	7314R	B			030821 W054.9			-----									
7314	0432	0438	7314R	B			045537 W081.7			0042	0241	7314R	A						
7314	0446	0531	7315R	B						0240	0438	7314R	B						
7315	0620	0626	7315R	B			064254 W108.6			0446	0627	7315R	B						
7315	0632	0718	7316A	B						0632	0808	7316A	B						
7316	0813	0905	7317A	B			083010 W135.4			0812	0955	7317A	B						
7317	1000	1053	7318A	B			101727 W162.2			1000	1144	7318A	B						
7318	1148	1240	7319A	B			120443 E171.0			1148	1326	7319A	B						
7319	1331	1427	7320A	B			135200 E144.2			1331	1513	7320A	B						
7320	1518	1614	7321A	B			153916 E117.4			1518	1654	7321A	B						
7321	1703	1802	7322A	B			172633 E090.5			1659	1838	7322A	B						
7322	1851	1949	7323A	B			191349 E063.7			1843	2023	7323A	B						
7323	2038	2136	7324A	B			210105 E036.9			2027	2209	7324A	B						
7324	2225	2324	7325A	B			224822 E010.1			2214	2359	7325A	B						
7325	0012	0111	7328R	A			003538 W016.7												

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
10 JUNE 1974

THIR										ESMR									
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		11.5 + 6.7		INT	H	THIR	ASC. AND							INT	H				
DATA	ON	OFF		ORBIT	D	GRID	DESC.	NODE		DATA	ON	OFF		ORBIT	D				
ORBIT	HRMN	HRMN	+	R	CORR	TIME	LONG			ORBIT	HRMN	HRMN	+	R					
			STDN	S	LALO	HRMNSS	DEG						STDN	S					
DAYTIME THIR										ASC. NODE									
7326	0111	0159	7328R	A		012920	E149.8			7326	0005	0200	7328R	A					
7327	0258	0347	7327R	B		031637	E123.0			7327	0202	0357	7327R	B					
7328	0445	0534	7328R	B		050353	E096.2			7328	0403	0540	7328R	B					
7329	0633	0721	7329A	B		065110	E069.4			7329	0545	0722	7329A	B					
7330	0820	0909	7331A	B		083826	E042.6			7330	0728	0914	7331A	B					
7331	1007	1056	7331A	A		102543	E015.8			7331	0913	1059	7331A	A					
7332	1154	1239	7332A	B		121259	W011.1			7332	1100	1240	7332A	B					
7333	1342	1427	7333A	B		140015	W037.9			7333	1245	1427	7333A	B					
7334	1529	1608	7334A	B		154732	W064.7			7334	1433	1610	7334A	B					
7335	1716	1750	7335A	B		173448	W091.5			7335	1615	1752	7335A	B					
7335	1757	1805	7336A	B						7336	1757	1939	7336A	B					
7336	1904	1937	7336A	B		192205	W118.4			7337	1945	2122	7337A	B					
7336	1945	1952	7337A	B						7338	2129	2314	7338A	B					
7337	2051	2122	7337A	B		210921	W145.2												
7337	2128	2140	7338A	B															
7338	2238	2314	7338A	B		225638	W1/2.0												
NIGHTTIME THIR										DESC. NODE									
7326	0203	0258	7327R	B		022255	W043.6			NEMS - SCR - ITPR									
7327	0347	0356	7327R	B		041011	W070.4			-----									
7327	0403	0445	7328R	B						0005	0200	7328R	A						
7328	0546	0633	7329A	B		055728	W097.2			0202	0401	7327R	B						
7329	0728	0820	7331A	B		074444	W124.0			0403	0540	7328R	B						
7330	0914	1007	7331A	A		093201	W150.8			0546	0722	7329A	B						
7331	1059	1154	7332A	B		111917	W177.7			0728	0914	7331A	B						
7332	1245	1342	7333A	B		130633	E155.5			0913	1059	7331A	A						
7333	1434	1529	7334A	B		145350	E128.7			1059	1240	7332A	B						
7334	1618	1716	7335A	B		164106	E101.9			1245	1428	7333A	B						
7335	1805	1904	7336A	B		182823	E075.1			1434	1610	7334A	B						
7336	1952	2051	7337A	B		201539	E048.3			1616	1752	7335A	B						
7337	2140	2238	7338A	B		220256	E021.4			1757	1939	7336A	B						
7338	0008	0025	7341R	A		235012	W005.4			1944	2123	7337A	B						

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
11 JUNE 1974

THIR										ESMR									
-----										-----									
DATA	11.5	+	6.7	INT	H	THIR	ASC. AND			DATA	ON	OFF	INT	H					
ORBIT	HRMN	HRMN	STDN	ORBIT	R	GRID	DESC. NODE	TIME	LONG	ORBIT	HRMN	HRMN	ORBIT	R					
				+	S	CORR							+	S					
						LALO	HRMNSS	DEG											
DAYTIME THIR										ASC. NODE									
7339	0025	0113	7341R	A			004354	E161.2		7339	2316	0114	7341R	A					
7340							023111	E134.4		7340	0302	0456	7341R	B					
7341	0400	0449	7341R	B			041827	E107.6		7341	0502	0644	7342R	B					
7342	0547	0636	7342R	B			060543	E080.7		7342	0650	0825	7343A	B					
7343	0735	0823	7343A	B			075300	E053.9		7343	0831	1010	7344A	B					
7344	0922	1009	7344A	B			094016	E027.1		7344	1016	1157	7345A	B					
7345	1109	1156	7345A	B			112733	E000.3		7345	1202	1340	7346A	B					
7346	1256	1339	7346A	B			131449	W026.5		7346	1346	1525	7347A	B					
7347	1444	1524	7347A	B			150206	W053.4		7347	1531	1709	7348A	B					
7348	1631	1707	7348A	B			164922	W080.2		7348	1714	1852	7349A	B					
7348	1714	1720	7349A	B						7349	1856	2040	7350A	B					
7349	1818	1849	7349A	B			183638	W107.0		7350	2045	2228	7351A	B					
7349	1856	1907	7350A	B															
7350	2005	2039	7350A	B			202355	W133.8											
7350	2046	2054	7351A	B															
7351	2153	2227	7351A	B			221111	W160.6											
7352							235828	E172.6											
NIGHTTIME THIR										DESC. NODE									
7339							013729	W032.2		7339	2316	0114	7341R	A					
7340	0302	0400	7341R	B			032445	W059.0		7340	0302	0456	7341R	B					
7341	0449	0455	7341R	B			051201	W085.8		7341	0502	0644	7342R	B					
7341	0502	0547	7342R	B						7342	0650	0825	7343A	B					
7342	0636	0643	7342R	B			065918	W112.7		7343	0831	1011	7344A	B					
7342	0649	0735	7343A	B						7344	1015	1158	7345A	B					
7343	0831	0922	7344A	B			084634	W139.5		7345	1202	1341	7346A	B					
7344	1015	1109	7345A	B			103351	W166.3		7346	1346	1526	7347A	B					
7345	1202	1256	7346A	B			122107	E166.9		7347	1531	1709	7348A	B					
7346	1346	1444	7347A	B			140824	E140.1		7348	1714	1851	7349A	B					
7347	1532	1631	7348A	B			155540	E113.3		7349	1856	2041	7350A	B					
7348	1720	1818	7349A	B			174257	E086.4		7350	2046	2228	7351A	B					
7349	1907	2005	7350A	B			193013	E059.6											
7350	2054	2153	7351A	B			211730	E032.8											
7351							230446	E006.0											
7352	0030	0127	7355R	A			005202	W020.8											

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
12 JUNE 1974

THIR										ESMR									
-----										-----									
11.5 + 6.7			INT	H	THIR	ASC. AND							INT	H					
DATA	ON	OFF	ORBIT	D	GRID	DESC.	NODE			DATA	ON	OFF	ORBIT	D					
ORBIT	HRMN	HRMN	+ STDN	R	CORR	TIME	LONG			ORBIT	HRMN	HRMN	+ STDN	R					
				S	LALJ	HRMNSS	DEG							S					
DAYTIME THIR					ASC. NODE														
7353	0127	0216	7355R	A		014544	E145.7			7353	0030	0222	7355R	A					
7354	0315	0403	7354R	B		033301	E118.9			7354	0223	0412	7354R	B					
7355	0502	0551	7355R	B		052017	E092.1			7355	0418	0557	7355R	B					
7356	0649	0737	7356A	B		070734	E065.3			7356	0602	0739	7356A	B					
7357	0836	0925	7357A	B		085450	E038.5			7357	0744	0926	7357A	B					
7358	1024	1110	7358A	B	1W	104206	E011.6			7358	0932	1112	7358A	B					
7359	1211	1256	7359A	B		122923	W015.2			7359	1117	1258	7359A	B					
7360	1358	1441	7360A	B		141639	W042.0			7360	1303	1441	7360A	B					
7361	1545	1623	7361A	B		160356	W068.8			7361			7361A	B					
7362	1733	1812	7362A	B		175112	W095.6			7362	1630	1814	7362A	B					
7363	1920	1954	7363A	B		193829	W122.5			7363	1820	1954	7363A	B					
7363	1959	2009	7364A	B						7364	1959	2142	7364A	B					
7364	2107	2141	7364A	B		212545	W149.3			7365	2148	2217	7365A	B					
7364	2147	2156	7365A	B															
7365	2255	2327	7365A	B		231301	W176.1												
7365	2335	2343	7368R	A															
NIGHTTIME THIR					DESC. NODE														
7353	0223	0315	7354R	B		023919	W048.7			NEMS - SCR - ITPR									
7354	0403	0410	7354R	B		042635	W074.5			-----									
7354	0418	0502	7355R	B						0030	0222	7355R	A						
7355	0603	0649	7356A	B		061352	W101.3			0223	0412	7354R	B						
7356	0744	0836	7357A	B		080108	W128.1			0418	0557	7355R	B						
7357	0932	1024	7358A	B	1E	094825	W154.9			0603	0739	7356A	B						
7358	1117	1211	7359A	B		113541	E178.3			0743	0927	7357A	B						
7359	1303	1358	7360A	B		132258	E151.4			0932	1112	7358A	B						
7360	1447	1545	7361A	B		151014	E124.6			1117	1258	7359A	B						
7361	1634	1733	7362A	B		165730	E097.8			1303	1442	7360A	B						
7362	1822	1920	7363A	B		184447	E071.0			1447	1625	7361A	B						
7363	2009	2107	7364A	B		203203	E044.2			1630	1814	7362A	B						
7364	2156	2255	7365A	B		221920	E017.3			1820	1954	7363A	B						
7365	2343	0042	7368R	A		000636	W009.5			1959	2142	7364A	B						

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
13 JUNE 1974

THIR										ESMR									
DATA		11.5 + 6.7		INT	H	THIR	ASC. AND			DATA		ON OFF		INT	H				
ORBIT		ON	OFF	ORBIT	D	GRID	DESC. NODE			ORBIT		HRMN	HRMN	ORBIT	D				
		HRMN	HRMN	STDN	R	CORR	TIME LONG					HRMN	HRMN	STDN	R				
					S	LALO	HRMNSS DEG								S				
DAYTIME THIR										ASC. NODE									
7366	0042	0131		7368R	A		010018 E157.1			7366	2334	0133		7368R	A				
7367	0229	0318		7367R	B		024734 E130.3			7367	0133	0330		7367R	B				
7368	0416	0505		7368R	B		043451 E103.5			7368	0337	0511		7368R	B				
7369	0604	0653		7369R	B		062207 E076.6			7369	0517	0659		7369R	B				
7370	0751	0838		7370A	B		080924 E049.8			7370	0704	0837		7370A	B				
7371	0938	1026		7371A	B		095640 E023.0			7371	0845	1026		7371A	B				
7372	1125	1211		7372A	B		114356 W003.8			7372	1032	1212		7372A	B				
7373	1313	1357		7373A	B		133113 W030.6			7373	1217	1358		7373A	B				
7374	1500	1540		7374A	B		151829 W057.5			7374	1403	1541		7374A	B				
7375	1647	1725		7375A	B		170546 W084.3			7375	1546	1726		7375A	B				
7376	1835	1910		7376A	B		185302 W111.1			7376	1731	1911		7376A	B				
7376	1916	1923		7377A	B					7377	1916	2059		7377A	B				
7377	2022	2057		7377A	B		204019 W137.9			7378	2104	2245		7378A	B				
7377	2104	2111		7378A	B														
7378	2209	2243		7378A	B		222735 W164.7												
7378	2250	2258		7381R	A														
NIGHTTIME THIR										DESC. NODE									
7366*	0131	0229		7367R	B		015353 W036.3				2324	0133		7368R	A				
7367	0318	0326		7367R	B		034109 W063.1				0132	0331		7367R	B				
7367	0336	0416		7368R	B						0336	0511		7368R	B				
7368	0517	0604		7369R	B		052826 W089.9				0516	0658		7369R	B				
7369	0703	0751		7370A	B		071542 W116.8				0703	0837		7370A	B				
7370	0845	0938		7371A	B		090258 W143.6				0845	1027		7371A	B				
7371	1032	1125		7372A	B		105015 W170.4				1032	1212		7372A	B				
7372	1217	1313		7373A	B		123731 E162.8				1217	1358		7373A	B				
7373	1403	1500		7374A	B		142448 E136.0				1403	1546		7374A	B				
7374	1549	1647		7375A	B		161204 E109.2				1546	1726		7375A	B				
7375	1736	1835		7376A	B		175921 E082.3				1731	1911		7376A	B				
7376	1923	2022		7377A	B		194637 E055.5				1916	2059		7377A	B				
7377	2111	2209		7378A	B		213354 E028.7				2104	2244		7378A	B				
7378	2258	2356		7381R	A		232110 E001.9												
*DIFFERENT 6.7 TIMES																			
7366	0142	0229		7367R	B														

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
14 JUNE 1974

THIR										ESMR									
-----										-----									
DATA	11.5 + 6.7		INT	H	THIR	ASC. AND				DATA			INT	H					
ORBIT	ON	OFF	ORBIT	D	GRID	DESC.	NODE	TIME	LONG	ORBIT	ON	OFF	ORBIT	D	TIME	LONG	DESC.	NODE	
	HRMN	HRMN	STDN	S	LALD	HRMNSS	DEG				HRMN	HRMN	STDN	S					
DAYTIME THIR										ASC. NODE									
7379	2356	0045	7381R	A		001452	E168.5			7379	2250	0049	7381R	A					
7380	0144	0233	7381R	B		020208	E141.6			7380	0009	0207	7381R	B					
7381						034924	E114.8			7382	0436	0614	7382R	B					
7382	0518	0607	7382R	B		053641	E088.0			7383	0619	0758	7384A	B					
7383	0706	0754	7384A	B		072358	E061.2			7384	0757	0944	7384A	A					
7384*	0853	0942	7384A	A		091114	E034.4			7385	0944	1127	7385A	B					
7385	1040	1126	7385A	B		105830	E007.5			7386	1132	1314	7386A	B					
7386	1227	1313	7386A	B		124547	W019.3			7387	1319	1500	7387A	B					
7387	1415	1458	7387A	B		143303	W046.1			7388	1504	1643	7388A	B					
7388	1602	1641	7388A	B		162020	W072.9			7389	1647	1825	7389A	B					
7389	1749	1824	7389A	B		180736	W099.7			7390	1830	2014	7391A	B					
7389	1830	1838	7391A	B						7391	2013	2200	7391A	A					
7390	1936	2012	7391A	B		195452	W126.6			7392	2201	2346	7392A	B					
7390	2013	2025	7391A	A															
7391	2124	2158	7391A	A		214209	W153.4												
7391	2201	2213	7392A	B															
7372	2311	2344	7392A	B		232925	E179.8												
7392	2352	0000	7395R	A															
*DIFFERENT 6.7 TIMES																			
7384	0853	0939	7384A	A															
NIGHTTIME THIR										DESC. NODE									
7379	0100	0144	7381R	B		010826	W024.9			NEMS - SCR - ITPR									
7380	0233	0259	7381R	B		025543	W051.8			-----									
7381	0436	0518	7382R	B		044259	W078.6			2250	0048	7381R	A						
7382	0607	0612	7382R	B		063016	W105.4			0059	0301	7381R	B						
7382	0618	0706	7384A	B						0436	0614	7382R	B						
7383	0756	0853	7384A	A		081732	W132.2			0619	0758	7384A	B						
7384	0944	1040	7385A	B		100449	W159.0			0756	0943	7384A	A						
7385	1132	1227	7386A	B		115205	E174.1			0944	1127	7385A	B						
7386	1319	1415	7387A	B		133922	E147.3			1132	1314	7386A	B						
7387	1504	1602	7388A	B		152638	E120.5			1319	1459	7387A	B						
7388	1651	1749	7389A	B		171354	E093.7			1504	1643	7388A	B						
7389	1838	1936	7391A	B		190111	E066.9			1647	1825	7389A	B						
7390	2025	2124	7391A	A		204827	E040.1			1830	2014	7391A	B						
7391	2213	2311	7392A	B		223544	E013.2			2012	2200	7391A	A						
7392	0000	0058	7395R	A		002300	W013.6			2201	2346	7392A	B						

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
15 JUNE 1974

THIR										ESMR																			
-----										-----																			
DATA	11.5 + 6.7		INT	H	THIR	ASC. AND		DESC.	NODE	DATA	ON	OFF	INT	H	DESC.	NODE	DATA	ON	OFF	INT	H								
	ORBIT	HRMN	HRMN	STDN	R	CORR	TIME						LONG	ORBIT						HRMN	HRMN	STDN	R	CORR	TIME	LONG	ORBIT	HRMN	HRMN
ORBIT	HRMN	HRMN	STDN	S	LALO	HRMNSS	DEG			ORBIT	HRMN	HRMN	STDN	S	LALO	HRMNSS	DEG			ORBIT	HRMN	HRMN	STDN	S	LALO				
DAYTIME THIR										ASC. NODE																			
7393	0058	0147	7395R	A		011642	E153.0			7393	2352	0150	7395R	A						7393	2352	0150	7395R	A					
7394	0246	0334	7394R	B		030358	E126.2			7394	0150	0345	7394R	B						7394	0150	0345	7394R	B					
7395	0433	0522	7395R	B		045115	E099.4			7395	0351	0529	7395R	B						7395	0351	0529	7395R	B					
7396	0620	0709	7396A	B		063831	E072.5			7396	0534	0710	7396A	B						7396	0534	0710	7396A	B					
7397	0807	0856	7397A	B		082547	E045.7			7397	0715	0858	7397A	B						7397	0715	0858	7397A	B					
7398	0955	1039	7398A	B		101304	E018.9			7398	0902	1042	7398A	B						7398	0902	1042	7398A	B					
7399	1142	1230	7399A	B		120020	W007.9			7399	1047	1232	7399A	B						7399	1047	1232	7399A	B					
7400	1329	1412	7400A	B		134737	W034.7			7400	1236	1414	7400A	B						7400	1236	1414	7400A	B					
7401	1516	1555	7401A	B		153453	W061.6			7401	1419	1557	7401A	B						7401	1419	1557	7401A	B					
7402	1704	1738	7402A	B		172210	W088.4			7402	1602	1740	7402A	B						7402	1602	1740	7402A	B					
7402	1744	1753	7403A	B						7403	1744	1926	7403A	B						7403	1744	1926	7403A	B					
7403	1851	1924	7403A	B		190926	W115.2			7404	1931	2113	7404A	B						7404	1931	2113	7404A	B					
7403	1931	1940	7404A	B						7405	2119	2300	7405A	B						7405	2119	2300	7405A	B					
7404	2038	2112	7404A	B		205642	W142.0																						
7404	2118	2127	7405A	B																									
7405	2226	2258	7405A	B		224359	W168.8																						
7405	2308	2314	7408R	A																									
NIGHTTIME THIR										DESC. NODE										NEMS - SCR - ITPR									
7393	0150	0246	7394R	B		021017	W040.4			-----																			
7394	0334	0343	7394R	B		035733	W067.2			2352	0150	7395R	A							2352	0150	7395R	A						
7394	0351	0433	7395R	B						0150	0345	7394R	B							0150	0345	7394R	B						
7395	0522	0528	7395R	B		054450	W094.0			0351	0529	7395R	B							0351	0529	7395R	B						
7395	0534	0620	7396A	B						0534	0711	7396A	B							0534	0711	7396A	B						
7396	0715	0807	7397A	B		073206	W120.9			0715	0857	7397A	B							0715	0857	7397A	B						
7397	0902	0955	7398A	B		091922	W147.7			0902	1043	7398A	B							0902	1043	7398A	B						
7398	1047	1142	7399A	B		110639	W174.5			1047	1232	7399A	B							1047	1232	7399A	B						
7399	1236	1329	7400A	B		125355	E158.7			1236	1414	7400A	B							1236	1414	7400A	B						
7400	1419	1516	7401A	B		144112	E131.9			1419	1557	7401A	B							1419	1557	7401A	B						
7401	1650	1704	7402A	B		162828	E105.1			1602	1739	7402A	B							1602	1739	7402A	B						
7402	1753	1851	7403A	B		181545	E078.2			1744	1926	7403A	B							1744	1926	7403A	B						
7403	1940	2038	7404A	B		200301	E051.4			1931	2114	7404A	B							1931	2114	7404A	B						
7404	2127	2226	7405A	B		215018	E024.6			2118	2259	7405A	B							2118	2259	7405A	B						
7405	2314	0013	7408R	A		233734	W002.2																						

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
16 JUNE 1974

THIR						ESMR					
11.5 + 6.7		INT	H	THIR	ASC. AND					INT	H
DATA	ON	OFF	ORBIT	D	DESC. NODE					ORBIT	D
ORBIT	HRMN	HRMN	STDN	R	TIME	LONG				STDN	R
				S	HRMNSS	DEG					S
DAYTIME THIR					ASC. NODE						
7406	0013	0102	7408R	A	003115	E164.4	7406	2308	0106	7408R	A
7407	0200	0249	7408R	B	021832	E137.5	7407	0115	0315	7408R	B
7408					040548	E110.7	7408	0450	0634	7409R	B
7409	0535	0624	7409R	B	055305	E083.9	7409	0638	0814	7411A	B
7410	0722	0811	7411A	B	074021	E057.1	7410	0814	1001	7411A	A
7411	0909	0958	7411A	A	092737	E030.3	7411	1002	1142	7412A	B
7412	1056	1141	7412A	B	111454	E003.5	7412	1148	1329	7413A	B
7413	1244	1327	7413A	B	130210	W023.4	7413	1333	1515	7414A	B
7414	1431	1512	7414A	B	144927	W050.2	7414	1520	1655	7415A	B
7405	1618	1654	7415A	B	163643	W077.0	7415	1700	1840	7416A	B
7415	1700	1707	7416A	B			7416	1845	2030	7418A	B
7416	1806	1839	7416A	B	182400	W103.8	7417	2031	2219	7418A	A
7416	1845	1854	7418A	B			7418	2219	0004	7419A	B
7417	1953	2028	7418A	B	201116	W130.7					
7417	2031	2042	7418A	A							
7418	2140	2217	7418A	A	215833	W157.5					
7418	2219	2229	7419A	B							
7419	2327	0000	7419A	B	234549	E175.7					
7419	0009	0016	7422R	A							
NIGHTTIME THIR					DESC. NODE						
7406	0115	0200	7408R	B	012450	W029.0	NEMS - SCR - ITPR				
7407	0249	0314	7408R	B	031207	W055.9	2308	0106	7408R	A	
7408	0450	0535	7409R	B	045923	W082.7	0115	0316	7408R	B	
7409	0624	0631	7409R	B	064640	W109.5	0450	0633	7409R	B	
7409	0638	0722	7411A	B			0638	0814	7411A	B	
7410	0814	0909	7411A	A	083356	W136.3	0814	1002	7411A	A	
7411	1002	1056	7412A	B	102113	W163.1	1002	1143	7412A	B	
7412	1148	1244	7413A	B	120829	E170.1	1148	1329	7413A	B	
7413	1334	1431	7414A	B	135546	E143.2	1334	1515	7414A	B	
7414	1520	1618	7415A	B	154302	E116.4	1519	1655	7415A	B	
7415	1707	1806	7416A	B	173019	E089.6	1700	1840	7416A	B	
7416	1854	1953	7418A	B	191735	E062.8	1845	2030	7418A	B	
7417	2042	2140	7418A	A	210451	E036.0	2031	2218	7418A	A	
7418	2229	2327	7419A	B	225208	E009.1	2219	0004	7419A	B	
7419	0016	0115	7422R	A	003924	W017.7					

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
17 JUNE 1974

THIR										ESMR									
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11.5 + 6.7		INT	H	THIR	ASC. AND		INT		H	ON		OFF	INT	H					
DATA	ON	OFF	ORBIT	D	GRID	DESC.	NODE	ORBIT	D	HRMN	HRMN	HRMN	ORBIT	D					
ORBIT	HRMN	HRMN	STDN	R	CORR	TIME	LONG	STDN	R	HRMNSS	DEG		STDN	R					
DAYTIME THIR										ASC. NODE									
7420	0115	0204	7422R	A		013305	E148.9	7420		0059	0128	7422R	A						
7421	0302	0351	7421R	B		032022	E122.1	7421		0206	0400	7421R	B						
7422	0449	0538	7422R	B		050738	E095.3	7422		0406	0545	7422R	B						
7423	0637	0725	7423A	B		065455	E068.4	7423		0551	0728	7423A	B						
7424	0824	0911	7424A	B		084211	E041.6	7424		0733	0915	7424A	B						
7425	1011	1056	7425A	B		102928	E014.8	7425		0921	1058	7425A	B						
7426	1158	1243	7426A	B		121644	W012.0	7426		1103	1245	7426A	B						
7427	1346	1429	7427A	B		140400	W038.8	7427		1250	1431	7427A	B						
7428	1533	1612	7428A	B		155117	W065.7	7428		1436	1614	7428A	B						
7429	1720	1756	7429A	B		173833	W092.5	7429		1619	1759	7429A	B						
7429	1803	1809	7430A	B				7430		1803	1934	7430A	B						
7430	1907	1941	7430A	B		192550	W119.3	7431		1948	2137	7431A	B						
7430	1948	1956	7431A	B				7432		2133	2315	7432A	B						
7431	2055	2126	7431A	B		211306	W146.1												
7431	2133	2144	7432A	B															
7432	2242	2314	7432A	B		230023	W172.9												
7432	2324	2331	7435R	A															
NIGHTTIME THIR										DESC. NODE									
7420	0206	0302	7421R	B		022461	W044.5	NEMS - SCR - ITPR											
7421	0351	0358	7421R	B		041357	W071.3	0008	0207	7422R	A								
7421	0405	0449	7422R	B				0206	0359	7421R	B								
7422	0538	0544	7422R	B		060114	W098.1	0406	0545	7422R	B								
7422	0550	0637	7423A	B				0550	0728	7423A	B								
7423	0734	0824	7424A	B		074830	W125.0	0734	0915	7424A	B								
7424	0920	1011	7425A	B		093547	W151.8	0920	1058	7425A	B								
7425	1103	1158	7426A	B		112303	W178.6	1103	1245	7426A	B								
7426	1250	1346	7427A	B		131019	E154.6	1250	1431	7427A	B								
7427	1436	1533	7428A	B		145736	E127.8	1435	1614	7428A	B								
7428	1622	1720	7429A	B		164452	E101.0	1619	1758	7429A	B								
7429	1809	1907	7430A	B		183209	E074.1	1803	1934	7430A	B								
7430	1956	2055	7431A	B		201925	E047.3	1948	2128	7431A	B								
7431	2144	2242	7432A	B		220642	E020.5	2133	2315	7432A	B								
7432	2331	0029	7435R	A		235358	W006.3												

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
18 JUNE 1974

THIR										ESMR									
		11.5 + 6.7		INT	H	THIR	ASC. AND					INT	H						
DATA.	ON	OFF	ORBIT	+	R	GRID	DESC.	NODE		DATA	ON	OFF	ORBIT	D					
ORBIT	HRMN	HRMN	STDN	S	LALO	CORR	TIME	LONG		ORBIT	HRMN	HRMN	STDN	S					
DAYTIME THIR										ASC. NODE									
7433	0029	0118	7435R	A			004739	E160.3		7433	2324	0118	7435R	A					
7434	0217	0305	7435R	B			023455	E133.4		7434	0130	0330	7435R	B					
7435							042212	E106.6		7436	0507	0647	7436R	B					
7436	0551	0640	7436R	B			060928	E079.8		7437	0653	0830	7438A	B					
7437	0738	0827	7438A	B			075645	E053.0		7438	0830	1019	7438A	A					
7438	0926	1015	7438A	A			094401	E026.2		7439	1019	1200	7439A	B					
7439	1113	1157	7439A	B			113118	W000.7		7440	1205	1347	7440A	B					
7440	1300	1344	7440A	B			131834	W027.5		7441	1353	1530	7441A	B					
7441	1447	1527	7441A	B			150551	W054.3		7442	1536	1710	7442A	B					
7442	1635	1710	7442A	B			165307	W081.1		7443	1716	1900	7443A	B					
7442	1716	1724	7443A	B						7444	1906	2046	7444A	B					
7443	1822	1857	7443A	B			184023	W107.9		7445	2051	2231	7445A	B					
7443	1906	1911	7444A	B															
7444	2009	2044	7444A	B			202740	W134.8											
7444	2051	2058	7445A	B															
7445	2157	2230	7445A	B			221456	W161.6											
7445	2239	2245	7449R	A															
NIGHTTIME THIR										DESC. NODE									
7433	0131	0217	7435R	B			014115	W033.1		NEMS - SCR - ITPR									
7434	0305	0329	7435R	B			032831	W060.0		2324	0122	7435R	A						
7435	0507	0551	7436R	B			051547	W086.8		0130	0331	7435R	B						
7436	0653	0738	7438A	B			070304	W113.6		0507	0648	7436R	B						
7437	0830	0926	7438A	A			085020	W140.4		0653	0831	7438A	B						
7438	1019	1113	7439A	B			103737	W167.2		0830	1019	7438A	A						
7439	1205	1300	7440A	B			122453	E165.9		1019	1200	7439A	B						
7440	1353	1447	7441A	B			141210	E139.1		1205	1348	7440A	B						
7441	1536	1635	7442A	B			155926	E112.3		1353	1530	7441A	B						
7442	1724	1822	7443A	B			174643	E085.5		1536	1712	7442A	B						
7443	1911	2009	7444A	B			193359	E058.7		1716	1900	7443A	B						
7444	2058	2157	7445A	B			212115	E031.9		1906	2048	7444A	B						
7445	2245	2344	7449R	A			230832	E005.0		2051	2232	7445A	B						

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
19 JUNE 1974

THIR										ESMR									
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DATA	11.5 + 6.7		INT	H	THIR	ASC. AND		DESC. NODE		DATA	ON OFF		INT	H	THIR	ASC. AND		DESC. NODE	
ORBIT	HRMN	HRMN	ORBIT	D	GRID	TIME	LONG	TIME	LONG	ORBIT	HRMN	HRMN	ORBIT	D	GRID	TIME	LONG	TIME	LONG
			STDN	R	CORR	HRMNSS	DEG						STDN	R	CORR	HRMNSS	DEG		
				S	LALO									S	LALO				
DAYTIME THIR										ASC. NODE									
7446	2344	0033	7449R	A		000213	E171.6			7446	2239	0037	7449R	A					
7447	0131	0220	7448R	B		014929	E144.8			7447	0047	0248	7448R	B					
7448						033646	E118.0			7449	0425	0601	7449R	B					
7449*	0506	0546	7449R	B		052402	E091.2			7450	0606	0745	7451A	B					
7450	0653	0742	7451A	B		071118	E064.3			7451	0744	0930	7451A	A					
7451	0840	0929	7451A	A		085835	E037.5			7452	0931	1115	7452A	B					
7452	1027	1114	7452A	B		104551	E010.7			7453	1120	1301	7453A	B					
7453	1215	1259	7453A	B		123308	W016.1			7454	1306	1444	7454A	B					
7454	1402	1443	7454A	B		142024	W042.9			7455	1450	1630	7455A	B					
7455	1549	1628	7455A	B		160741	W069.8			7456	1634	1815	7457A	B					
7456	1737	1815	7457A	B		175457	W096.6			7457	1815	1957	7457A	A					
7456	1816	1825	7457A	A						7458	2006	2145	7458A	B					
7457	1924	1952	7457A	A		194214	W123.4			7459	2151	2331	7459A	B					
7457	2006	2013	7458A	B															
7458	2111	2145	7458A	B		212930	W150.2												
7458	2151	2200	7459A	B															
7459	2258	2330	7459A	B		231646	W177.0												
7459	2337	2347	7462R	A															
*DIFFERENT 6.7 TIMES																			
7449	0506	0555	7449R	B															
NIGHTTIME THIR										DESC. NODE									
7446	0048	0131	7448R	B		005548	W021.8			NEMS - SCR - ITPR									
7447	0220	0247	7448R	B		024305	W048.6			2239	0037	7449R	A						
7448	0425	0506	7449R	B		043021	W075.4			0047	0248	7448R	B						
7449	0606	0653	7451A	B		061738	W102.2			0425	0601	7449R	B						
7450	0744	0840	7451A	A		080454	W129.1			0606	0745	7451A	B						
7451	0931	1027	7452A	B		095211	W155.9			0744	0931	7451A	A						
7452	1121	1215	7453A	B		113927	E177.3			0931	1115	7452A	B						
7453	1306	1402	7454A	B		132643	E150.5			1120	1302	7453A	B						
7454	1451	1549	7455A	B		151400	E123.7			1306	1444	7454A	B						
7455	1638	1737	7457A	B		170116	E096.9			1449	1630	7455A	B						
7456	1825	1924	7457A	A		184833	E070.0			1634	1816	7457A	B						
7457	2013	2111	7458A	B		203549	E043.2			1816	1957	7457A	A						
7458	2200	2258	7459A	B		222306	E016.4			2006	2144	7458A	B						
7459	2347	0046	7462R	A		001022	W010.4			2151	2332	7459A	B						

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
20 JUNE 1974

THIR										ESMR									
DATA.		11.5 + 6.7		INT	H	THIR	ASC. AND			DATA		ON	OFF	INT	H				
ORBIT	HRMN	HRMN	STDN	ORBIT	D	GRID	DESC.	TIME	LONG	ORBIT	HRMN	HRMN	STDN	ORBIT	D	ORBIT	HRMN	HRMN	STDN
				+	R	CORR								+	R				
					S	LALJ	HRMNSS	DEG							S				
DAYTIME THIR										ASC. NODE									
7460	0046	0135	7462R	A			010403	E156.2		7460	2339	0137	7462R	A					
7461	0233	0322	7461R	B			025119	E129.3		7461	0138	0332	7461R	B					
7462	0420	0509	7462R	B			043836	E102.5		7462	0338	0515	7462R	B					
7463	0607	0656	7463R	B			062552	E075.7		7463	0520	0703	7463R	B					
7464	0755	0844	7465A	B			081309	E048.9		7464	0708	0847	7465A	B					
7465	0942	1030	7465A	A			100025	E022.1		7465	0847	1031	7465A	A					
7466	1129	1212	7466A	B			114741	W004.8		7466	1033	1213	7466A	B					
7467	1317	1400	7467A	B			133458	W031.6		7467	1218	1402	7467A	B					
7468	1504	1544	7468A	B			152214	W058.4		7468	1407	1545	7468A	B					
7469	1651	1727	7469A	B			170931	W085.2		7469	1550	1729	7469A	B					
7469	1733	1740	7470A	B						7470	1733	1913	7470A	B					
7470	1838	1911	7470A	B			185647	W112.0		7471	1918	2102	7471A	B					
7470	1918	1927	7471A	B						7472	2109	2249	7472A	B					
7471	2026	2101	7471A	B			204404	W138.9											
7471	2109	2115	7472A	B															
7472	2213	2247	7472A	B			223120	W165.7											
NIGHTTIME THIR										DESC. NODE									
7460	0138	0233	7461R	B			015739	W037.3		NEMS - SCR - ITPR									
7461	0322	0331	7461R	B			034455	W064.1		2337	0137	7462R	A						
7461	0338	0420	7462R	B						0138	0332	7461R	B						
7462	0509	0514	7462R	B			053211	W090.9		0338	0515	7462R	B						
7462	0520	0607	7463R	B						0520	0703	7463R	B						
7463	0646	0702	7463R	B			071928	W117.7		0708	0848	7465A	B						
7463	0708	0755	7465A	B						0847	1032	7465A	A						
7464	0847	0942	7465A	A			090644	W144.5		1033	1214	7466A	B						
7465	1032	1129	7465A	B			105401	W171.3		1218	1402	7467A	B						
7466	1218	1317	7467A	B			124117	E161.8		1407	1546	7468A	B						
7467	1407	1504	7468A	B			142834	E135.0		1550	1728	7469A	B						
7468	1553	1651	7469A	B			161550	E108.2		1733	1913	7470A	B						
7469	1740	1838	7470A	B			180307	E081.4		1918	2103	7471A	B						
7470	1927	2026	7471A	B			195023	E054.6		2108	2249	7472A	B						
7471	2115	2213	7472A	B			213739	E027.8											
7472	2306	0000	7475R	A			232456	E000.9											

TABLE 2-2
DATA AVAILABILITY ON-OFF TIME
21 JUNE 1974

THIR										ESMR									
		11.5 + 6.7		INT	H	THIR	ASC. AND					INT	H						
DATA	ON	OFF	ORBIT	D	GRID	DESC. NODE	TIME	LONG		DATA	ON	OFF	ORBIT	D					
ORBIT	HRMN	HRMN	STDN	R	CORR		HRMNSS	DEG		ORBIT	HRMN	HRMN	STDN	R					
DAYTIME THIR										ASC. NODE									
7473	0000	0049	7475R	A		001836	E167.5			7473	2305	0104	7475R	A					
7474	0147	0236	7475R	B		020553	E140.7			7474	0105	0303	7475R	B					
7475						035309	E113.9			7476	0438	0618	7476R	B					
7476	0522	0611	7476R	B		054026	E087.1			7477	0623	0801	7478A	B					
7477	0709	0757	7478A	B		072742	E060.2			7478	0801	0946	7478A	A					
7478	0857	0945	7478A	A		091459	E033.4			7479	0947	1135	7479A	B					
7479	1044	1133	7479A	B		110215	E006.6			7480	1140	1316	7480A	B					
7480	1231	1315	7480A	B		124932	W020.2			7481	1312	1501	7481A	B					
7481	1418	1500	7481A	B		143648	W047.0			7482	1507	1645	7482A	B					
7482	1606	1643	7482A	B		162404	W073.9			7483	1650	1830	7483A	B					
7482	1650	1655	7483A	B						7484	1835	2017	7484A	B					
7483	1753	1829	7483A	B		181121	W100.7			7485	2022	2200	7485A	B					
7483	1835	1842	7484A	B															
7484	1940	2016	7484A	B		195837	W127.5												
7484	2022	2029	7485A	B															
7485	2128	2159	7485A	B		214554	W154.3												
7486	2335	0004	7489R	A		233310	E178.9												
NIGHTTIME THIR										DESC. NODE									
7473	0049	0103	7475R	A		011212	W025.9									2306	0104	7475R	A
7473	0104	0147	7475R	B												0105	0303	7475R	B
7474	0236	0302	7475R	B		025929	W052.7									0438	0618	7476R	B
7475	0438	0522	7476R	B		044645	W079.5									0623	0802	7478A	B
7476	0611	0617	7476R	B		063402	W106.4									0800	0947	7478A	A
7476	0624	0709	7478A	B												0947	1135	7479A	B
7477	0801	0857	7478A	A		082118	W133.2									1140	1316	7480A	B
7478	0947	1044	7479A	B		100835	W160.0									1321	1502	7481A	B
7479	1140	1231	7480A	B		115551	E173.2									1507	1645	7482A	B
7480	1321	1418	7481A	B		134307	E146.4									1650	1830	7483A	B
7481	1507	1606	7482A	B		153024	E119.6									1835	2017	7484A	B
7482	1655	1753	7483A	B		171740	E092.7									2022	2201	7485A	B
7483	1842	1940	7484A	B		190457	E065.9												
7484	2029	2128	7485A	B		205213	E039.1												
7485						223930	E012.3												
7486	0004	0102	7489R	A		002646	W014.5												

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
22 JUNE 1974

THIR										ESMR									
-----										-----									
DATA	11.5	+	6.7	INT	H	THIR	ASC. AND							INT	H				
ORBIT	ON	OFF	ORBIT	D	GRID	DESC. NODE	TIME	LONG		DATA	ON	OFF	ORBIT	D					
HRMN	HRMN	STDN	R	CORR	HRMNSS	DEG				ORBIT	HRMN	HRMN	STDN	R					
			S	LALO										S					
DAYTIME THIR										ASC. NODE									
7487	0102	0132	7489R	A		012027	E122.1			7487	2335	0059	7489R	A					
7487	0133	0151	7488R	B						7488	0133	0332	7488R	B					
7488	0249	0331	7488R	B		030743	E125.2			7489	0354	0531	7489R	B					
7489	0437	0525	7489R	B		045459	E098.4			7490	0537	0715	7491A	B					
7490	0624	0710	7491A	B		064216	E071.6			7491	0715	0903	7491A	A					
7491	0811	0900	7491A	A		082932	E044.8			7492	0905	1045	7492A	B					
7492	0958	1043	7492A	B		101649	E018.0			7493	1050	1230	7493A	B					
7493	1146	1227	7493A	B		120405	W008.9			7494	1236	1417	7494A	B					
7494	1333	1417	7494A	B		135122	W035.7			7495	1423	1601	7495A	B					
7495	1520	1600	7495A	B		153838	W062.5			7496	1607	1745	7496A	B					
7496	1708	1743	7496A	B		172555	W089.3			7497	1750	1930	7497A	B					
7496	1750	1756	7497A	B						7498	1935	2120	7498A	B					
7497	1855	1929	7497A	B		191311	W116.1			7499	2125	2304	7499A	B					
7497	1935	1944	7498A	B															
7498	2042	2118	7498A	B		210027	W143.0												
7498	2125	2131	7499A	B															
7499	2229	2303	7499A	B		224744	W169.8												
NIGHTTIME THIR										DESC. NODE									
7487	0151	0249	7488R	B		021403	W041.4			NEMS - SCR - ITPR									
7488	0354	0437	7489R	B		040119	W068.2			2335	0133	7489R	A						
7489	0525	0531	7489R	B		054835	W095.0			0133	0332	7488R	B						
7489	0537	0624	7491A	B						0354	0532	7489R	B						
7490	0715	0811	7491A	A		073552	W121.8			0537	0716	7491A	B						
7491	0904	0958	7492A	B		092308	W148.6			0715	0903	7491A	A						
7492	1050	1146	7493A	B		111025	W175.5			0904	1045	7492A	B						
7493	1236	1333	7494A	B		125741	E157.7			1050	1231	7493A	B						
7494	1423	1520	7495A	B		144458	E130.9			1236	1418	7494A	B						
7495	1609	1708	7496A	B		163214	E104.1			1423	1602	7495A	B						
7496	1756	1855	7497A	B		181931	E077.3			1607	1745	7496A	B						
7497	1944	2042	7498A	B		200647	E050.5			1750	1930	7497A	B						
7498	2131	2229	7499A	B		215403	E023.6			1935	2120	7498A	B						
7499						234120	W003.2			2125	2304	7499A	B						

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
23 JUNE 1974

THIR										ESMR									
11.5 + 6.7			INT	H	THIR	ASC. AND								INT	H				
DATA	ON	OFF	ORBIT	D	GRID	DESC.	NODE				DATA	ON	OFF	ORBIT	D				
ORBIT	HRMN	HRMN	+	R	CORR	TIME	LONG				ORBIT	HRMN	HRMN	+	R				
			STDN	S	LALO	HRMNSS	DEG							STDN	S				
DAYTIME THIR										ASC. NODE									
7500	0031	0106	7502R	A		003500	E163.4				7500	0030	0229	7502R	A				
7501	0204	0228	7502R	A		022217	E136.6				7502	0229	0426	7502R	B				
7501	0229	0253	7502R	B							7503	0453	0635	7503R	B				
7502	0351	0427	7502R	B		040933	E109.8				7504	0640	0817	7505A	B				
7503	0538	0627	7503A	B		055650	E083.0				7505	0817	1003	7505A	A				
7504	0726	0815	7505A	B		074406	E056.1				7506	1005	1150	7506A	B				
7505	0913	1002	7505A	A		093122	E029.3				7507	1156	1332	7507A	B				
7506	1100	1149	7506A	B		111839	E002.5				7508	1338	1516	7508A	B				
7507	1248	1330	7507A	B		130555	W024.3				7509	1521	1700	7509A	B				
7508	1435	1515	7508A	B		145312	W051.2				7510	1704	1845	7510A	B				
7509	1622	1658	7509A	B		164028	W078.0				7511	1850	2030	7511A	B				
7509	1704	1711	7510A	B							7512	2040	2216	7512A	B				
7510	1809	1844	7510A	B		182745	W104.8												
7410	1851	1858	7511A	B															
7511	1957	2029	7511A	B		201501	W131.6												
7511	2036	2046	7512A	B															
7512	2144	2215	7512A	B		220217	W158.4												
7513						234934	E174.8												
NIGHTTIME THIR										DESC. NODE					NEMS - SCR - ITPR				
7500	0106	0204	7502R	A		012836	W030.0				0031	0029		7502R	B				
7501	0253	0351	7502R	B		031553	W056.8				0229	0428		7502R	B				
7502	0453	0538	7503R	B		050309	W083.6				0543	0635		7503R	B				
7503	0627	0633	7503R	B		065026	W110.5				0640	0818		7505A	B				
7503	0640	0726	7505A	B							0816	1003		7505A	A				
7504	0816	0913	7505A	A		083742	W137.3				1005	1151		7506A	B				
7505	1004	1100	7506A	B		102459	W164.1				1156	1333		7507A	B				
7506	1155	1248	7507A	B		121215	E169.1				1338	1517		7508A	B				
7507	1338	1435	7508A	B		135931	E142.3				1521	1659		7509A	B				
7508	1524	1622	7509A	B		154648	E115.5				1704	1846		7510A	B				
7509	1711	1809	7510A	B		173404	E088.6				1851	2031		7511A	B				
7510	1858	1957	7511A	B		192121	E061.8				2036	2217		7512A	B				
7511	2046	2144	7512A	B		210837	E035.0												
7512						225554	E008.2												
7513	0021	0118	7516R	A		004310	W018.6												

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
24 JUNE 1974

THIR						ESMR					
-----						-----					
DATA	11.5 + 6.7		INT	H	THIR	ASC. AND				INT	H
ORBIT	ON	OFF	ORBIT	D	GRID	DESC. NODE				ORBIT	D
	HRMN	HRMN	STDN	R	CORR	TIME LONG				STDN	R
				S	LALJ	HRMNSS DEG					S

DAYTIME THIR

ASC. NODE

7514	0118	0137	7516R	A		013650 E147.9
7514	0151	0206	7516R	A		
7515	0306	0355	7515R	B		032407 E121.1
7516	0453	0542	7516R	B		051123 E094.3
7517	0640	0728	7517A	B		065840 E067.5
7518*	0827	0914	7518A	B		084556 E040.7
7519	1015	1058	7519A	B		103313 E013.9
7520	1202	1244	7520A	B		122029 W013.0
7521	1349	1431	7521A	B		140745 W039.8
7522	1537	1616	7522A	B		155502 W066.6
7523	1724	1757	7523A	B		174218 W093.4
7523	1803	1813	7524A	B		
7524	1911	1943	7524A	B		192935 W120.2
7524	1950	2000	7525A	B		
7525	2058	2132	7525A	B		211651 W147.1
7525	2140	2147	7526A	B		
7526	2246	2321	7526A	B		230408 W173.9

*NO 11.5 DATA

7514	0021	0208	7516R	A
7515	0208	0404	7515R	B
7516	0410	0546	7516R	B
7517	0553	0730	7517A	B
7518	0735	0915	7518A	B
7519	0920	1100	7519A	B
7520	1105	1245	7520A	B
7521	1250	1432	7521A	B
7522	1437	1617	7522A	B
7523	1622	1759	7523A	B
7524	1804	1945	7524A	B
7525	1950	2133	7525A	B
7526	2140	2307	7426A	B

NIGHTTIME THIR

DESC. NODE

7514	0208	0306	7515R	B		023027 W045.5
7515	0355	0402	7515R	B		041743 W072.3
7515	0410	0453	7516R	B		
7516	0542	0547	7516R	B		060459 W099.1
7516	0553	0640	7517A	B		
7517*	0735	0827	7518A	B		075216 W125.9
7518	0921	1015	7519A	B		093932 W152.7
7519	1105	1202	7520A	B		112649 W179.6
7520	1251	1349	7521A	B		131405 E153.6
7521	1438	1537	7522A	B		150122 E126.8
7522	1626	1724	7523A	B		164838 E100.0
7523	1813	1911	7524A	B		183555 E073.2
7524	2000	2058	7525A	B		202311 E046.4
7525	2147	2246	7526A	B		221027 E019.6
7526						235744 W007.3

*NO 11.5 DATA

NEMS - SCR - ITPR

0021	0208	7516R	A
0208	0403	7515R	B
0410	0547	7516R	B
0553	0730	7517A	B
0735	0916	7518A	B
0921	1100	7519A	B
1105	1246	7520A	B
1250	1432	7521A	B
1437	1618	7522A	B
1622	1759	7523A	B
1803	1944	7524A	B
1950	2133	7525A	B
2140	2307	7526A	B

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
25 JUNE 1974

THIR										ESMR									
-----										-----									
		11.5 + 6.7		INT	H	THIR	ASC. AND							INT	H				
DATA	ON	OFF	ORBIT	D	GRID	DESC.	NODE	TIME	LONG	DATA	ON	OFF	ORBIT	D	R				
ORBIT	HRMN	HRMN	STDN	S	CORR	HRMNSS	DEG			ORBIT	HRMN	HRMN	STDN	S	R				
DAYTIME THIR										ASC. NODE									
7527	0051	0122	7529R	A		005124	E159.3			7528	0050	0247	7529R	A					
7528	0220	0248	7529R	A		023840	E132.5			7529	0249	0446	7529R	B					
7528	0249	0309	7529R	B						7530	0510	0650	7530R	B					
7529	0408	0447	7529R	B		042557	E105.7			7531	0656	0830	7531A	B					
7530	0555	0644	7530R	B		061313	E078.9			7532	0834	1015	7532A	B					
7531	0742	0828	7531A	B		080030	E052.0			7533	1021	1200	7533A	B					
7532	0929	1014	7532A	B		094746	E025.2			7534	1206	1351	7534A	B					
7533	1117	1159	7533A	B		113503	W001.6			7535	1357	1533	7535A	B					
7534	1304	1350	7534A	B		132219	W028.4			7536	1538	1715	7536A	B					
7535	1451	1531	7535A	B		150936	W055.2			7537	1720	1859	7537A	B					
7536	1638	1712	7536A	B		165652	W082.1			7538	1904	2051	7539A	B					
7536	1720	1727	7537A	B						7539	2050	2235	7539A	A					
7537	1826	1857	7537A	B		184408	W108.9												
7537	1904	1915	7539A	B															
7538	2013	2049	7539A	B		203125	W135.7												
7538	2051	2102	7539A	A															
7539	2200	2235	7539A	A		221841	W162.5												
NIGHTTIME THIR										DESC. NODE									
7527	0122	0220	7529R	A		014500	W034.1			NEMS - SCR - ITPR									
7528	0309	0408	7529R	B		033217	W060.9			-----									
7529	0510	0555	7530R	B		051933	W087.7			0051	0248		7529R	A					
7530	0644	0649	7530R	B		070650	W114.5			0249	0446		7529R	B					
7530	0656	0742	7531A	B						0510	0651		7530R	B					
7531	0834	0929	7532A	B		085406	W141.4			0656	0829		7531A	B					
7532	1021	1117	7533A	B		104123	W168.2			0834	1016		7532A	B					
7533	1206	1304	7534A	B		122839	E165.0			1021	1201		7533A	B					
7534	1357	1451	7535A	B		141555	E138.2			1206	1351		7534A	B					
7535	1540	1638	7536A	B		160312	E111.4			1357	1533		7535A	B					
7536	1727	1826	7537A	B		175028	E084.5			1538	1715		7536A	B					
7537	1915	2013	7539A	B		193745	E057.7			1720	1809		7537A	B					
7538	2102	2200	7539A	A		212501	E030.9			1904	2051		7539A	B					
7539						231218	E004.1			2051	2236		7539A	A					

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
26 JUNE 1974

THIR										ESMR									

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
27 JUNE 1974

THIR										ESMR									
DATA	11.5 + 6.7		INT	H	THIR	ASC. AND		DESC. NODE	TIME LONG	DATA			INT	H	DESC. NODE	TIME LONG	DATA		
	ON	OFF	ORBIT	D	GRID						ON	OFF	ORBIT	D				ON	OFF
ORBIT	HRMN	HRMN	STDN	R	CORR	HRMNS	DEG			ORBIT	HRMN	HRMN	STDN	R			ORBIT	HRMN	HRMN
				S	LALJ									S					
DAYTIME THIR										ASC. NODE									
7554	0049	0138	7556R	A		010748	E155.2			7554	2340	0140	7556R	A					
7555	0237	0326	7555R	B		025504	E128.4			7555	0139	0336	7555R	B					
7556	0424	0513	7556R	B		044221	E101.6			7556	0343	0519	7556R	B					
7557	0611	0700	7557R	B		062937	E074.7			7557	0524	0707	7557R	B					
7558	0758	0846	7558A	B		081654	E047.9			7558	0713	0848	7558A	B					
7559	0946	1030	7559A	B		100410	E021.1			7559	0852	1032	7559A	B					
7560	1133	1216	7560A	B		115126	W005.7			7560	1037	1217	7560A	B					
7561	1320	1404	7561A	B		133843	W032.5			7561	1222	1405	7561A	B					
7562	1508	1548	7562A	B		152559	W059.4			7562	1411	1550	7562A	B					
7563	1655	1728	7563A	B		171316	W086.2			7563	1555	1730	7563A	B					
7563	1735	1744	7564A	B						7564	1735	1915	7564A	B					
7564	1842	1913	7564A	B		190032	W113.0			7565	1920	2107	7566A	B					
7564	1920	1931	7565A	B						7566	2107	2254	7566A	A					
7565	2029	2105	7565A	B		204749	W139.8												
7565	2107	2118	7566A	B															
7566	2217	2252	7566A	B		223505	W166.6												
NIGHTTIME THIR										DESC. NODE									
7554	0139	0237	7555R	B		020124	W038.2			NEMS - SCR - ITPR									
7555	0326	0334	7555R	B		034841	W065.0			2340	0140	7556R	A						
7555	0343	0424	7556R	B						0140	0336	7555R	B						
7556	0513	0518	7556R	B		053557	W091.8			0342	0519	7556R	B						
7556	0524	0611	7557R	B						0524	0708	7557R	B						
7557	0700	0707	7557R	B		072314	W118.7			0713	0848	7558A	B						
7557	0713	0758	7558A	B						0852	1032	7559A	B						
7558	0852	0946	7559A	B		091030	W145.5			1037	1218	7560A	B						
7559	1037	1133	7560A	B		105746	W172.3			1222	1406	7561A	B						
7560	1222	1320	7561A	B		124503	E160.9			1411	1550	7562A	B						
7561	1411	1508	7562A	B		143219	E134.1			1554	1730	7563A	B						
7562	1556	1655	7563A	B		161936	E107.3			1735	1915	7564A	B						
7563	1744	1842	7564A	B		180652	E080.4			1920	2106	7566A	B						
7564	1931	2029	7565A	B		195409	E053.6			2107	2254	7566A	A						
7565	2118	2217	7566A	B		214125	E026.8												
7566						232842	000.0												

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
28 JUNE 1974

THIR										ESMR									
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DATA	11.5	6.7	INT	H	THIR	ASC. AND				DATA	ON	OFF	INT	H	THIR	ASC. AND			
ORBIT	ON	OFF	ORBIT	D	GRID	DESC. NODE	TIME	LONG		ORBIT	HRMN	HRMN	ORBIT	D	GRID	DESC. NODE	TIME	LONG	
	HRMN	HRMN	STDN	S	CORR	HRMNSS	DEG				HRMN	HRMN	STDN	S	CORR	HRMNSS	DEG		
DAYTIME THIR										ASC. NODE									
7567	0022	0053	7569R	A		002221	E166.6			7568	0021	0220	7569R	A					
7568	0151	0219	7569R	A		020938	E139.8			7569	0220	0419	7569R	B					
7568	0220	0240	7569R	B						7570	0440	0620	7570R	B					
7569	0338	0417	7569R	B		035654	E112.9			7571	0626	0802	7571A	B					
7570	0526	0615	7570R	B		054411	E086.1			7572	0806	0949	7572A	B					
7571	0713	0800	7571A	B		073127	E059.3			7573	0953	1133	7573A	B					
7572	0900	0946	7572A	B		091844	E032.5			7574	1138	1320	7574A	B					
7573	1048	1131	7573A	B		110600	E005.7			7575	1325	1506	7575A	B					
7574	1235	1319	7574A	B		125316	W021.2			7576	1511	1651	7576A	B					
7575	1422	1505	7575A	B		144033	W048.0			7577	1656	1835	7577A	B					
7576	1609	1650	7576A	B		162749	W074.8			7578	1842	2020	7578A	B					
7577	1757	1834	7577A	B		181506	W101.6			7579	2026	2208	7579A	B					
7578	1944	2019	7578A	B		200222	W128.4												
7578	2026	2033	7579A	B															
7579	2131	2207	7579A	B		214939	W155.3												
7580	2359	0007	7583R	A		233655	E177.9												
NIGHTTIME THIR										DESC. NODE									
7567	0053	0151	7569R	A		011558	W026.9			NEMS - SCR - ITPR									
7568	0240	0338	7569R	B		030314	W053.7			0022	0220	7569R	A						
7569	0440	0526	7570R	B		045031	W080.5			0220	0419	7569R	B						
7570	0626	0713	7571A	B		063747	W107.3			0440	0621	7570R	B						
7571	0806	0900	7572A	B		082504	W134.1			0626	0802	7571A	B						
7572	0953	1048	7573A	B		101220	W160.9			0806	0948	7572A	B						
7573	1138	1235	7574A	B		115937	E172.3			0953	1133	7573A	B						
7574	1326	1422	7575A	B		134653	E145.4			1138	1321	7574A	B						
7575	1512	1609	7576A	B		153410	E118.6			1326	1507	7575A	B						
7576	1658	1757	7577A	B		172126	E091.8			1511	1652	7576A	B						
7577	1846	1944	7578A	B		190842	E065.0			1656	1836	7577A	B						
7578	2033	2131	7579A	B		205559	E038.2			1842	2021	7578A	B						
7579						224315	E011.3			2026	2208	7579A	B						
7580	0007	0106	7583R	A		003032	W015.5												

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
29 JUNE 1974

THIR										ESMR									
-----										-----									
11.5 + 6.7			INT	H	THIR	ASC. AND							INT	H					
DATA	ON	OFF	ORBIT	D	GRID	DESC.	NODE			DATA	ON	OFF	ORBIT	D					
ORBIT	HRMN	HRMN	+	R	CORR	TIME	LONG			ORBIT	HRMN	HRMN	+	R					
			STDN	S	LALO	HRMNSS	DEG						STDN	S					
DAYTIME THIR										ASC. NODE									
7581	0106	0155	7583R	A		012412	E151.1			7581	2358	0157	7583R	A					
7582	0253	0342	7582R	B		031128	E124.3			7582	0156	0353	7582R	B					
7583	0440	0529	7583R	B		045844	E097.5			7583	0358	0534	7583R	B					
7584	0628	0716	7585A	B		064601	E070.6			7584	0540	0720	7585A	B					
7585	0815	0904	7585A	A		083317	E043.8			7585	0719	0906	7585A	A					
7586	1002	1047	7586A	B		102034	E017.0			7586	0908	1048	7586A	B					
7587	1149	1233	7587A	B		120750	W009.8			7587	1053	1235	7587A	B					
7588	1337	1419	7588A	B		135507	W036.6			7588	1240	1420	7588A	B					
7589	1524	1603	7589A	B		154223	W063.5			7589	1426	1605	7589A	B					
7590	1711	1747	7590A	B		172939	W090.3			7590	1610	1749	7590A	B					
7591	1911	1947	7593A	A		191656	W117.1			7592	1912	2110	7593A	A					
7592	2046	2109	7593A	A		210412	W143.9			7592	2110	2300	7593A	B					
7592	2110	2135	7593A	B															
7593	2233	2305	7593A	B		225129	W170.7												
NIGHTTIME THIR										DESC. NODE									
										NEMS - SCR - ITPR									
-----										-----									
7581	0156	0253	7582R	B		021748	W042.3			2358	0157		7583R	A					
7582	0342	0351	7582R	B		040505	W069.1			0156	0352		7582R	B					
7582	0358	0440	7583R	B						0358	0535		7583R	B					
7583	0540	0628	7585A	B		055221	W095.9			0540	0720		7585A	B					
7584	0719	0815	7585A	A		073938	W122.8			0719	0906		7585A	A					
7585	0908	1002	7586A	B		092654	W149.6			0908	1048		7586A	B					
7586	1053	1149	7587A	B		111410	W176.4			1053	1235		7587A	B					
7587	1240	1337	7588A	B		130127	E156.8			1240	1421		7588A	B					
7588	1428	1524	7589A	B		144843	E130.0			1426	1605		7589A	B					
7589	1613	1711	7590A	B		163600	E103.2			1610	1749		7590A	B					
7590						182316	E076.3			1912	2111		7593A	B					
7591	1947	2046	7593A	A		201033	E049.5			2110	2306		7593A	A					
7592	2135	2233	7593A	B		215749	E022.7												
7593						234506	W004.1												

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
30 JUNE 1974

THIR										ESMR									
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DATA	ON	OFF	INT	H	THIR	ASC. AND	DESC. NODE			DATA	ON	OFF	INT	H					
ORBIT	HRMN	HRMN	ORBIT	D	GRID	TIME	LONG			ORBIT	HRMN	HRMN	ORBIT	D					
			+	R	CORR								+	R					
			STDN	S	LALO	HRMNSS	DEG						STDN	S					
DAYTIME THIR										ASC. NODE									
7594	0038	0109	7596R	A		003845	E162.5			7595	0039	0236	7596R	A					
7595	0208	0236	7596R	A		022602	E135.6			7596	0237	0432	7596R	B					
7595	0237	0256	7596R	B						7597	0456	0637	7597R	B					
7596	0355	0435	7596R	B		041318	E108.8			7598	0642	0818	7598A	B					
7597	0542	0631	7597R	B		060034	E082.0			7599	0823	1003	7599A	B					
7598	0729	0816	7598A	B		074751	E055.2			7600	1008	1149	7600A	B					
7599	0917	1002	7599A	B		093507	E028.4			7601	1153	1336	7601A	B					
7600	1104	1146	7600A	B		112224	E001.6			7602	1342	1520	7602A	B					
7601	1251	1335	7601A	B		130940	W025.3			7603	1525	1705	7603A	B					
7602	1438	1519	7602A	B		145657	W052.1			7604	1709	1849	7604A	B					
7603	1626	1703	7603A	B		164413	W078.9			7605	1855	2035	7605A	B					
7603	1710	1715	7604A	B						7606	2040	2225	7606A	B					
7604	1813	1847	7604A	B		183130	W105.7												
7604	1854	1902	7605A	B															
7605	2000	2033	7605A	B		201846	W132.5												
7605	2040	2049	7606A	B															
7606	2148	2223	7606A	B		220602	W159.4												
7607						235319	E173.8												
NIGHTTIME THIR										DESC. NODE									
7594	0109	0208	7596R	A		013222	W030.9			0036	0235	7596R	A						
7595	0256	0355	7596R	B		031938	W057.8			0237	0436	7596R	B						
7596	0456	0542	7597R	B		050655	W084.6			0456	0637	7597R	B						
7597	0642	0729	7598A	B		065411	W111.4			0642	0818	7598A	B						
7598	0823	0917	7599A	B		084128	W138.2			0823	1004	7599A	B						
7599	1008	1104	7600A	B		102844	W165.0			1008	1148	7600A	B						
7600	1153	1251	7601A	B		121601	E168.1			1153	1337	7601A	B						
7601	1343	1438	7602A	B		140317	E141.3			1342	1521	7602A	B						
7602*	1527	1626	7603A	B		155033	E114.5			1526	1704	7603A	B						
7603	1715	1813	7604A	B		173750	E087.7			1709	1849	7604A	B						
7604	1902	2000	7605A	B		192506	E060.9			1854	2034	7605A	B						
7605	2049	2148	7606A	B		211223	E034.1			2040	2224	7606A	B						
7606						225939	E007.2												
7607	0024	0122	7609R	A		004656	W019.6												
*DIFFERENT 6.7 TIMES																			
7602	1534	1626	7603A	B															

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
1 JULY 1974

THIR										ESMR											
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		11.5 + 6.7		INT	H	THIR	ASC. AND						INT	H							
DATA	ON	OFF	ORBIT	D	GRID	DESC.	NODE	TIME	LONG	DATA	ON	OFF	ORBIT	D	TIME	LONG	TIME	LONG	TIME	LONG	
ORBIT	HRMN	HRMN	STDN	S	R	CORR	LALD	HRMNSS	DEG	ORBIT	HRMN	HRMN	STDN	S	R	CORR	LALD	HRMNSS	DEG	HRMNSS	DEG
DAYTIME THIR										ASC. NODE											
7608	0122	0150	7609R	A				014035	E147.0	7608	0024	0152	7609R	A							
7608	0152	0211	7609R	B						7608	0152	0351	7609R	B							
7609	0309	0350	7609R	B				032752	E120.2	7610	0415	0557	7611A	B							
7610	0457	0546	7611A	B				051508	E093.4	7611	0557	0737	7612A	A							
7611	0644	0733	7612A	A				070225	E066.6	7612	0738	0918	7612A	B							
7612	0831	0916	7612A	B				084941	E039.8	7613	0922	1105	7613A	B							
7613	1018	1103	7613A	B				103657	E012.9	7614	1109	1254	7614A	B							
7614	1206	1253	7614A	B				122414	W013.9	7615	1300	1440	7615A	B							
7615	1353	1438	7615A	B				141130	W040.7	7616	1445	1623	7616A	B							
7616	1540	1622	7616A	B				155847	W067.5	7617	1630	1806	7618A	B							
7617	1728	1806	7618A	B				174603	W094.3	7618	1810	1947	7618A	A							
7617	1809	1816	7618A	A						7619	1956	2138	7619A	B							
7618	1915	1946	7618A	A				193320	W121.2												
7618	1956	2004	7619A	B																	
7619	2102	2136	7619A	B				212036	W148.0												
7620								230752	W174.8												
NIGHTTIME THIR										DESC. NODE											
7608	0211	0309	7609R	B				023412	W046.4	NEMS - SCR - ITPR											
7609	0415	0457	7611A	B				042129	W073.2	0024	0152	7609R	A								
7610	0546	0556	7611A	B				060845	W100.0	0152	0351	7609R	B								
7610	0557	0644	7612A	A						0415	0558	7611A	B								
7611	0738	0831	7612A	B				075601	W126.9	0556	0738	7612A	A								
7612	0923	1018	7613A	B				094318	W153.7	0738	0918	7612A	B								
7613	1109	1206	7614A	B				113034	E179.5	0923	1104	7613A	B								
7614	1300	1353	7615A	B				131751	E152.7	1109	1255	7614A	B								
7615	1445	1540	7616A	B				150507	E125.9	1300	1440	7615A	B								
7616	1630	1728	7618A	B				165224	E099.1	1444	1624	7616A	B								
7617	1816	1915	7618A	A				183940	E072.3	1630	1807	7618A	B								
7618	2004	2102	7619A	B				202657	E045.4	1807	1947	7618A	A								
7619								221413	E018.6	1956	2138	7619A	B								
7620								000129	W008.2												

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
2 JULY 1974

THIR										ESMR																
-----										-----																
		11.5 + 6.7		INT	H	THIR	ASC. AND					ON	OFF	INT	H											
DATA	ON	OFF		ORBIT	D	GRID	DESC.	NODE		DATA	ON	OFF		ORBIT	D											
ORBIT	HRMN	HRMN	STDN	+	R	CORR	TIME	LONG		ORBIT	HRMN	HRMN	STDN	+	R											
					S	LALJ	HRMNSS	DEG							S											
DAYTIME THIR										ASC. NODE																
7621	0054	0126		7623R	A		005509	E158.4		7622	0053	0252		7623R	A											
7622	0224	0251		7623R	A		024225	E131.6		7623	0252	0451		7623R	B											
7622	0253	0313		7623R	B					7624	0511	0656		7625A	B											
7623	0411	0449		7623R	B		042942	E104.7		7625	0658	0838		7625A	A											
7624	0558	0647		7625A	B		061658	E077.9		7626	0839	1020		7626A	B											
7625	0746	0835		7625A	A		080415	E051.1		7627	1025	1205		7627A	B											
7626	0933	1019		7626A	B		095131	E024.3		7628	1210	1355		7628A	B											
7627	1120	1204		7627R	B		113848	W002.5		7629	1400	1539		7629A	B											
7628	1308	1353		7628A	B		132604	W029.4		7630	1544	1717		7630A	B											
7629	1455	1536		7629A	B		151320	W056.2		7631	1722	1903		7631A	B											
7630	1642	1715		7630A	B		170037	W083.0		7632	1908	2052		7632A	B											
7630	1722	1732		7631A	B					7633	2056	2239		7633A	B											
7631	1829	1902		7631A	B		184753	W109.8																		
7631	1909	1919		7632A	B																					
7632*	2017	2048		7632A	B		203510	W136.2																		
7632	2057	2106		7633A	B																					
7633	2204	2238		7633A	B		222226	W163.4																		
*DIFFERENT 6.7 TIMES																										
7632	2017	2050		7632A	B																					
NIGHTTIME THIR										DESC. NODE																
7621	0126	0224		7623R	A		014846	W035.0																		
7622	0313	0411		7623R	B		033602	W061.8																		
7623	0511	0558		7625A	B		052319	W088.6																		
7624	0647	0656		7625A	B		071035	W115.5																		
7624	0658	0746		7625A	A																					
7625	0839	0933		7625A	B		085752	W142.3																		
7626	1025	1120		7627A	B		104508	W169.1																		
7627	1211	1308		7628A	B		123224	E164.1																		
7628	1400	1455		7629A	B		141941	E137.3																		
7629*	1544	1642		7630A	B		160657	E110.4																		
7630	1731	1829		7631A	B		175414	E083.6																		
7631	1918	2017		7632A	B		194130	E056.8																		
7632	2106	2204		7633A	B		212847	E030.0																		
7633							231603	E003.2																		
*DIFFERENT 6.7 TIMES																										
7629	1556	1642		7630A	B																					

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
3 JULY 1974

THIR							ESMR						
DATA	11.5 + 6.7		INT	H	THIR	ASC. AND	DATA	ON	OFF	INT	H		
ORBIT	HRMN	HRMN	ORBIT	D	GRID	DESC. NODE	ORBIT	HRMN	HRMN	ORBIT	D		
			+	R	CORR	TIME LONG				+	R		
			STDN	S	LALJ	HRMNSS DEG				STDN	S		
DAYTIME THIR							ASC. NODE						
7634	0010	0040	7636R	A		000943 E169.7	7635	0010	0209	7636R	A		
7635	0138	0207	7636R	A		015659 E142.9	7636	0208	0342	7636R	B		
7635	0209	0227	7636R	B			7637	0427	0614	7638A	B		
7636	0326	0406	7636R	B		034415 E116.1	7638	0613	0755	7639A	A		
7637	0513	0602	7638A	B		053132 E089.3	7639	0755	0856	7639A	B		
7638	0700	0749	7639A	A		071848 E062.5	7640	0938	1120	7640A	B		
7639	0847	0932	7639A	B		090605 E035.6	7641	1126	1307	7641A	B		
7640	1035	1119	7640A	B		105321 E008.8	7642	1313	1450	7642A	B		
7641	1222	1306	7641A	B		124038 W018.0	7643	1456	1634	7643A	B		
7642	1409	1449	7642A	B		142754 W044.8	7645	1818	1952	7646A	A		
7643	1557	1633	7643A	B		161510 W071.6	7646	1952	2151	7646A	B		
7644						180227 W098.5	7647	2159	2239	7647A	B		
7645	1952	2020	7646A	B		194943 W125.3							
7646	2118	2144	7646A	B		213700 W152.1							
7646	2159	2207	7647A	B									
7647	2306	2338	7647A	B		232416 W178.9							
NIGHTTIME THIR							DESC. NODE						
7634	0040	0138	7636R	A		010320 W023.7	NEMS - SCR - ITPR						
7635	0227	0326	7636R	B		025036 W050.5	0010	0208	7636R	A			
7636	0428	0513	7638A	B		043752 W077.3	0208	0343	7636R	B			
7637	0602	0611	7638A	B		062509 W104.1	0427	0614	7638A	B			
7637	0613	0700	7639A	A			0612	0755	7639A	A			
7638	0755	0847	7639A	B		081225 W130.9	0755	0934	7639A	B			
7639	0939	1035	7640A	B		095942 W157.8	0938	1120	7640A	B			
7640	1126	1222	7641A	B		114658 E175.4	1126	1307	7641A	B			
7641	1313	1409	7642A	B		133415 E148.6	1313	1405	7642A	B			
7642	1458	1557	7643A	B		152131 E121.8	1456	1634	7643A	B			
7643						170848 E095.0	1818	1952	7646A	A			
7644						185604 E068.1	1952	2151	7646A	B			
7645	2020	2118	7646A	B		204320 E041.3	2158	2340	7647A	B			
7646	2207	2306	7647A	B		223037 E014.5							
7647	0008	0053	7649R	A		001753 W012.3							

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
4 JULY 1974

THIR										ESMR									
-----										-----									
DATA	11.5 + 6.7		INT	H	THIR	ASC. AND		DESC. NODE		DATA	ON OFF		INT	H	THIR	ASC. AND		DESC. NODE	
ORBIT	HRMN	HRMN	ORBIT	D	GRID	TIME	LONG	HRMNSS	DEG	ORBIT	HRMN	HRMN	ORBIT	D	GRID	TIME	LONG	HRMNSS	DEG
			STDN	S	LALJ								STDN	S	LALJ				
DAYTIME THIR										ASC. NODE									
7648	0053	0141	7649R	A		011133	E154.3			7648	0008	0146	7649R	A					
7649	0240	0329	7649R	B		025849	E127.4			7649	0218	0339	7649R	B					
7650						044606	E100.6			7651	0523	0713	7652A	B					
7651	0615	0704	7652A	B		063322	E073.8			7652	0712	0853	7652A	A					
7652	0802	0851	7652A	A		082038	E047.0			7653	0854	1035	7653A	B					
7653	0949	1034	7653A	B		100755	E020.2			7654	1040	1220	7654A	B					
7654	1137	1219	7654A	B		115511	W006.7			7655	1225	1409	7655A	B					
7655	1324	1408	7655A	B		134228	W033.5			7656	1414	1553	7656A	B					
7656	1511	1552	7656A	B		152944	W060.3			7657	1559	1735	7657A	B					
7657	1658	1733	7657A	B		171701	W087.1			7658	1739	1920	7658A	B					
7657	1739	1747	7658A	B						7659	1924	2108	7659A	B					
7658	1846	1918	7658A	B		190417	W113.9			7660	2114	2256	7660A	B					
7658	1924	1935	7659A	B															
7659	2033	2107	7659A	B		205133	W140.7												
7659	2114	2122	7660A	B															
7660	2220	2255	7660A	B		223850	W167.6												
NIGHTTIME THIR										DESC. NODE									
7648	0224	0240	7649R	B		020510	W039.1			NEMS - SCR - ITPR									
7649	0329	0338	7649R	B		035226	W065.9			0007	0146	7649R	A						
7650	0522	0615	7652A	B		053943	W092.8			0219	0339	7649R	B						
7651	0704	0712	7652A	B		072659	W119.6			0523	0714	7652A	B						
7651	0712	0802	7652A	A						0712	0854	7652A	A						
7652	0854	0949	7653A	B		091415	W146.4			0854	1036	7653A	B						
7653	1040	1137	7654A	B		110132	W173.2			1040	1221	7654A	B						
7654	1226	1324	7655A	B		124848	E160.0			1226	1450	7655A	B						
7655	1415	1511	7656A	B		143605	E133.1			1415	1554	7656A	B						
7656	1600	1658	7657A	B		162321	E106.3			1558	1735	7657A	B						
7657	1747	1846	7658A	B		181038	E079.5			1739	1919	7658A	B						
7658	1935	2033	7659A	B		195754	E052.7			1924	2109	7659A	B						
7659	2122	2220	7660A	B		214511	E025.9			2114	2257	7660A	B						
7660						233227	W001.0												

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
5 JULY 1974

THIR										ESMR									
-----										-----									
DATA	11.5 + 6.7		INT	H	THIR	ASC. AND		DESC. NODE		DATA			INT	H			DESC. NODE		
ORBIT	ON	OFF	ORBIT	D	GRID	TIME	LONG			ORBIT	ON	OFF	ORBIT	D					
	HRMN	HRMN	STDN	R	CORR	HRMNSS	DEG				HRMN	HRMN	STDN	R					
				S	LALO									S					
DAYTIME THIR										ASC. NODE									
7661	0035	0056	7663R	A		002606	E165.7			7662	0035	0230	7663R	A					
7662	0155	0233	7663R	A		021323	E138.8			7663	0234	0432	7663R	B					
7662	0234	0244	7663R	B						7664	0444	0630	7665A	B					
7663	0342	0431	7663R	B		040039	E112.0			7665	0630	0810	7665A	A					
7664	0529	0618	7665A	B		054756	E085.2			7666	0811	0950	7666A	B					
7665	0717	0806	7665A	A		073512	E058.4			7667	0956	1136	7667A	B					
7666	0904	0948	7666A	B		092229	E031.5			7668	1141	1325	7668A	B					
7667	1051	1135	7667A	B		110945	E004.7			7669	1330	1509	7669A	B					
7668	1238	1323	7668A	B		125701	W022.1			7670	1514	1655	7670A	B					
7669	1426	1507	7669A	B		144418	W048.9			7671	1700	1840	7672A	B					
7670	1613	1653	7670A	B		163134	W075.7			7672	1840	2023	7672A	A					
7671	1800	1838	7672A	B		181851	W102.6			7673	2026	2206	7673A	B					
7671	1840	1849	7672A	A						7674	2212	2356	7674A	B					
7672	1947	2052	7672A	A		200607	W129.4												
7672	2026	2036	7673A	B															
7673	2135	2205	7673A	B		215324	W156.2												
7673	2211	2224	7674A	B															
7674	2322	2356	7674A	B		234040	E177.0												
NIGHTTIME THIR										DESC. NODE									
7661	0056	0155	7663R	A		011943	W027.8			NEMS - SCR - ITPR									
7662	0244	0342	7663R	B		030700	W054.6			-----									
7663	0444	0529	7665A	B		045416	W081.4			0035	0234	7663R	A						
7664	0618	0628	7665A	B		064133	W108.2			0234	0432	7663R	B						
7664	0629	0717	7665A	A						0444	0630	7665A	B						
7665	0811	0904	7666A	B		082849	W135.1			0630	0810	7665A	A						
7666	0955	1051	7667A	B		101606	W161.9			0811	0951	7666A	B						
7667	1142	1238	7668A	B		120322	E171.3			0955	1137	7667A	B						
7668	1330	1426	7669A	B		135039	E144.5			1142	1325	7668A	B						
7669	1515	1613	7670A	B		153755	E117.7			1330	1509	7669A	B						
7670	1702	1800	7672A	B		172511	E090.9			1513	1655	7670A	B						
7671	1849	1947	7672A	A		191228	E064.1			1700	1839	7672A	B						
7672	2036	2135	7673A	B		205944	E037.2			1840	2023	7672A	A						
7673	2224	2322	7674A	B		224701	E010.4			2026	2207	7673A	B						
7674						003417	W016.4			2212	2357	7674A	B						

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
6 JULY 1974

THIR							ESMR						
11.5 + 6.7			INT	H	THIR	ASC. AND				INT	H		
DATA	ON	OFF	ORBIT	D	GRID	DESC. NODE				ORBIT	D		
ORBIT	HRMN	HRMN	STDN	R	CORR	TIME LONG				STDN	R		
				S	LALO	HRMNSS DEG					S		
DAYTIME THIR						ASC. NODE							
7675	0119	0158	7676R	A		012756 E150.2	7675	0004	0202	7676R	A		
7676*	0257	0345	7676R	B		031513 E123.4	7676	0203	0355	7676R	B		
7677						050229 E096.6	7678	0544	0720	7681A	A		
7678	0631	0719	7678A	B		064946 E069.7	7679	0725	0906	7679A	B		
7679	0818	0904	7679A	B		083702 E043.9	7680	0910	1050	7680A	B		
7680	1000	1050	7680A	B		102419 E016.1	7681	1056	1240	7681A	B		
7681	1153	1239	7681A	B		121135 W010.8	7682	1246	1425	7682A	B		
7682	1340	1424	7682A	B		135851 W037.6	7683	1430	1608	7683A	B		
7683	1527	1607	7683A	B		154608 W064.4	7684	1614	1754	7684A	B		
7684*	1715	1750	7684A	B		173324 W091.2	7685	1759	1939	7685A	B		
7684	1759	1804	7685A	B		192041 W118.0	7686	1945	2128	7686A	B		
7685	1902	1937	7685A	B		210757 W144.8	7687	2132	2312	7687A	B		
7685	1944	1951	7686A	B		225514 W171.6							
7686	2049	2125	7686A	B									
7686	2132	2138	7687A	B									
7687	2237	2310	7687A	B									
*DIFFERENT 6.7 TIMES													
7676	0303	0345	7676R	B									
7684	1715	1752	7684A	B									
NIGHTTIME THIR						DESC. NODE							
7675*	0202	0257	7676R	B		022134 W042.2	NEMS - SCR - ITPR						
7676	0345	0353	7676R	B		040850 W070.1	-----						
7677	0540	0631	7678A	B		055606 W096.9	0004	0202	7676R	A			
7678	0725	0818	7679A	B		074323 W123.7	0202	0355	7676R	B			
7679*	0925	1006	7680A	B		093039 W150.5	0540	0721	7678A	B			
7680	1056	1153	7681A	B		111756 W177.3	0725	0906	7679A	B			
7681	1246	1340	7682A	B		130512 E155.8	0911	1051	7680A	B			
7682	1430	1527	7683A	B		145229 E129.0	1056	1241	7681A	B			
7683	1616	1715	7684A	B		163945 E102.2	1246	1426	7682A	B			
7684	1804	1902	7685A	B		182702 E075.4	1430	1609	7683A	B			
7685	1951	2049	7686A	B		201418 E048.6	1614	1754	7684A	B			
7686	2138	2237	7687A	B		220134 E021.8	1759	1939	7685A	B			
7687						234851 W005.1	1944	2127	7686A	B			
							2132	2311	7687A	B			

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
7 JULY 1974

THIR										ESMR									
-----										-----									
		11.5 • 6.7		INT	H	THIR	ASC. AND							INT	H				
DATA	ON	OFF	ORBIT	D	GRID	DESC.	NODE			DATA	ON	OFF	ORBIT	D					
ORBIT	HRMN	HRMN	+	R	CORR	TIME	LONG			ORBIT	HRMN	HRMN	+	R					
			STDN	S	LALO	HRMNSS	DEG						STDN	S					
DAYTIME THIR										ASC. NODE									
7688	0042	0113	7690R	A		004230	E161.5			7689	0042	0239	7690R	A					
7689	0211	0239	7690R	A		022947	E134.7			7690	0240	0439	7690R	B					
7690						041703	E107.9			7691	0500	0642	7691R	B					
7691	0546	0635	7691R	B		060419	E081.1			7692	0647	0823	7693A	B					
7692	0733	0822	7693A	B		075136	E054.3			7693	0825	1010	7693A	A					
7693	0920	1009	7693A	A		095832	E027.5			7694	1011	1151	7694A	B					
7694	1107	1150	7694A	B		112609	E000.6			7695	1157	1341	7695A	B					
7695	1255	1340	7695A	B		131325	W026.2			7696	1346	1525	7696A	B					
7696	1442	1523	7696A	B		150042	W053.0			7697	1530	1707	7697A	B					
7697	1629	1706	7697A	B		164758	W079.8			7698	1712	1856	7699A	B					
7697	1712	1718	7699A	B						7699	1855	2040	7699A	A					
7698	1817	1854	7699A	B		183514	W106.7												
7698	1856	1905	7699A	A															
7699	2004	2039	7699A	A		202231	W133.5												
7700						220947	W160.3												
7701	2358	0027	7703R	A		235704	E172.9												
NIGHTTIME THIR										DESC. NODE									
7688	0113	0211	7690R	A		013607	W031.9			NEMS - SCR - ITPR									
7689						032324	W058.7			-----									
7690	0500	0546	7691R	B		051040	W085.5			0042	0239	7690R	A						
7691	0635	0641	7691R	B		065757	W112.4			0240	0439	7690R	B						
7691	0647	0733	7693A	B						0500	0642	7691R	B						
7692	0823	0920	7631A	A		084513	W139.2			0647	0823	7693A	B						
7693	1011	1107	7694A	B		103229	W166.0			0823	1011	7693A	A						
7694	1157	1255	7695A	B		121946	E167.2			1011	1152	7694A	B						
7695	1347	1442	7696A	B		140702	E140.4			1157	1342	7695A	B						
7696	1531	1629	7697A	B		155419	E113.6			1347	1525	7696A	B						
7697	1718	1817	7699A	B		174135	E086.8			1530	1708	7697A	B						
7698	1905	2004	7699A	A		192852	E060.0			1712	1856	7699A	B						
7699						211608	E033.1			1856	2040	7699A	A						
7700						230325	E006.3												
7701	0027	0155	7703R	A		005041	W020.5												

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
8 JULY 1974

THIR										ESMR									
-----										-----									
		11.5 + 6.7		INT	H	THIR	ASC. AND							INT	H				
DATA	ON	OFF		ORBIT	D	GRID	DESC.	NODE		DATA	ON	OFF		ORBIT	D				
ORBIT	HRMN	HRMN	+	R	CORR	LALO	TIME	LONG		ORBIT	HRMN	HRMN	+	STDN	S				
DAYTIME THIR										ASC. NODE									
7702	0126	0155	7703R	A			014420	E146.1		7702	2358	0155	7703R	A					
7702	0156	0215	7703R	B						7703	0156	0355	7703R	B					
7703	0313	0354	7703R	B			033137	E119.3		7704	0417	0600	7705A	B					
7704	0500	0549	7705A	B			051853	E092.4		7705	0600	0741	7706A	A					
7705	0647	0736	7706A	A			070610	E065.6		7706	0742	0923	7706A	B					
7706	0835	0920	7706A	B			085326	E038.8		7707	0927	1113	7707A	B					
7707	1022	1111	7707A	B			104042	E012.0		7708	1118	1258	7708A	B					
7708	1209	1256	7708A	B			122759	W014.8		7709	1304	1442	7709A	B					
7709	1357	1440	7709A	B			141515	W042.7		7710	1447	1626	7710A	B					
7710	1544	1624	7710A	B			160232	W068.5		7711	1631	1811	7711A	B					
7711	1731	1809	7711A	B			174948	W095.3		7712	1816	1957	7712A	B					
7712	1918	1954	7712A	B			193705	W122.1		7713	2001	2139	7713A	B					
7712	2001	2007	7713A	B						7714	2144	2328	7714A	B					
7713	2106	2138	7713A	B			212421	W148.9											
7713	2144	2155	7714A	B															
7714	2253	2326	7714A	B			231137	W175.7											
NIGHTTIME THIR										DESC. NODE									
7702	0215	0313	7703R	B			023757	W047.3		NEMS - SCR - ITPR									
7703	0417	0500	7705A	B			042514	W074.1		2358	0155	7703R	A						
7704	0549	0558	7705A	B			061230	W101.0		0156	0355	7703R	B						
7704	0601	0647	7706A	A						0417	0600	7705A	B						
7705	0742	0835	7706A	B			075947	W127.8		0742	0922	7706A	A						
7706	0927	1022	7707A	B			094703	W154.6		0600	0742	7706A	B						
7707	1118	1209	7708A	B			094703	W154.6		0927	1113	7707A	B						
7708	1304	1357	7709A	B			113420	E178.6		1118	1259	7708A	B						
7709	1447	1544	7710A	B			132136	E151.7		1304	1443	7709A	B						
7710	1633	1731	7711A	B			150852	E125.0		1447	1627	7710A	B						
7711	1820	1918	7712A	B			165609	E098.1		1631	1812	7711A	B						
7712	2007	2106	7713A	B			184325	E071.3		1816	1956	7712A	B						
7713	2155	2253	7714A	B			203042	E044.5		2001	2139	7713A	B						
7714							221758	E017.7		2144	2328	7714A	B						
							000515	W009.2											

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
9 JULY 1974

THIR										ESMR									
DATA		11.5 + 6.7		INT	H	THIR	ASC. AND			DATA		ON	OFF	INT	H				
ORBIT	HRMN	HRMN	STDN	ORBIT	D	GRID	DESC.	NODE		ORBIT	HRMN	HRMN	STDN	ORBIT	D				
					R	CORR	TIME	LONG							R				
					S	LALO	HRMNSS	DEG							S				
DAYTIME THIR										ASC. NODE									
7715	0110	0129	7717R	A			005854	E157.4		7716	0110	0309	7717R	A					
7716	0227	0307	7717R	A			024610	E130.6		7717	0309	0508	7717R	B					
7716	0309	0316	7717R	B						7718	0517	0618	7719A	B					
7717	0415	0504	7717R	B			043327	E103.8		7719	0700	0840	7720A	A					
7708	0602	0651	7718R	B			062043	E077.0		7720	0841	1025	7720A	B					
7719	0749	0838	7719A	A			080800	E050.2		7721	1031	1211	7721A	B					
7720	0936	1025	7720A	B			095516	E023.3		7722	1216	1400	7722A	B					
7721	1124	1210	7721A	B			114232	W003.5		7723	1405	1543	7723A	B					
7722	1311	1359	7722A	B			132949	W030.3		7724	1548	1730	7724A	B					
7723	1458	1542	7723A	B			151705	W057.1		7725	1735	1913	7725A	B					
7724	1646	1728	7724A	B			170422	W083.9		7726	1918	2055	7726A	B					
7725	1833	1912	7725A	B			185138	W110.8		7727	2100	2242	7727A	B					
7726	2020	2053	7726A	B			203855	W137.6											
7726	2100	2109	7727A	B															
7727	2207	2240	7727A	B			222611	W164.4											
NIGHTTIME THIR										DESC. NODE									
7715	0129	0227	7717R	A			015231	W036.0		NEMS - SCR - ITPR									
7716	0316	0415	7717R	B			033948	W062.8		0111	0309	7717R	A						
7717	0517	0602	7718R	B			052704	W089.6		0309	0508	7717R	B						
7718	0651	0658	7718R	B			071420	W116.4		0517	0659	7718A	B						
7718	0700	0749	7719A	A						0700	0841	7719A	A						
7719	0841	0936	7720A	B			090137	W143.2		0841	1026	7720A	B						
7720	1031	1124	7721A	B			104853	W170.1		1031	1212	7721A	B						
7721	1216	1311	7722A	B			123610	E163.1		1216	1400	7722A	B						
7722	1405	1458	7723A	B			142326	E136.3		1405	1544	7723A	B						
7723	1548	1646	7724A	B			161043	E109.5		1548	1730	7724A	B						
7724	1735	1833	7725A	B			175759	E082.7		1734	1913	7725A	B						
7725	1922	2020	7726A	B			194515	E055.8		1918	2055	7726A	B						
7726	2109	2207	7727A	B			213232	E029.0		2100	2242	7727A	B						
7727							231948	E002.2											

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
10 JULY 1974

THIR										ESMR									
DATA		11.5 + 6.7		INT	H	THIR	ASC. AND			DATA		ON	OFF	INT	H				
ORBIT	HRMN	HRMN	STDN	ORBIT	D	GRID	DESC. NODE	TIME	LONG	ORBIT	HRMN	HRMN	STDN	ORBIT	D	TIME	LONG	ORBIT	HRMN
					R	CORR		HRMNSS	DEG						R				
					S	LAL3									S				
DAYTIME THIR										ASC. NODE									
7728	0013	0044	7730R	A			011328	E168.8		7729	0013	0211	7730R	A					
7729	0142	0211	7730R	A			020044	E142.0		7730	0212	0410	7730R	B					
7729	0212	0231	7730R	B						7731	0432	0612	7731R	B					
7730	0329	0410	7730R	B			034800	E115.1		7732	0617	0755	7732A	B					
7731	0516	0605	7731R	B			053517	E088.3		7733	0800	0941	7733A	B					
7732	0704	0753	7732A	B			072233	E061.5		7734	0946	1129	7734A	B					
7733	0851	0940	7733A	B			090950	E034.7		7735	1133	1315	7735A	B					
7734	1038	1127	7734A	B			105706	E007.9		7736	1320	1458	7736A	B					
7735	1226	1313	7735A	B			124423	W019.0		7737	1503	1642	7737A	B					
7736	1413	1457	7736A	B			143639	W045.8		7738	1647	1826	7738A	B					
7737	1600	1641	7737A	B			161855	W072.6		7739	1833	2014	7739A	B					
7738	1747	1825	7738A	B			180612	W099.4		7740	2018	2157	7740A	B					
7739	1935	2012	7739A	B			195328	W126.2		7741	2203	2345	7741A	A					
7739	2018	2024	7740A	B															
7740	2122	2156	7740A	B			214045	W153.0											
7740	2203	2211	7741A	A															
7741	2309	2342	7741A	A			232801	W179.9											
7741	2349	2358	7744R	A															
NIGHTTIME THIR										DESC. NODE									
7728	0044	0142	7730R	A			010705	W024.6		NEMS - SCR - ITPR									
7729	0231	0329	7730R	B			025421	W051.4		0014	0212	7730R	A						
7730	0430	0516	7731R	B			044138	W078.3		0212	0411	7730R	B						
7731	0605	0611	7731R	B			062854	W105.1		0431	0612	7731R	B						
7731	0617	0704	7732A	B						0617	0755	7732A	B						
7732	0800	0851	7733A	B			081611	W131.9		0800	0942	7733A	B						
7733	0947	1038	7734A	B			100327	W158.7		0947	1129	7734A	B						
7734	1134	1226	7735A	B			115043	E174.5		1134	1315	7735A	B						
7735	1320	1413	7736A	B			133800	E147.7		1320	1459	7736A	B						
7736	1503	1600	7737A	B			152516	E120.8		1503	1643	7737A	B						
7737	1649	1747	7738A	B			171233	E094.0		1647	1827	7738A	B						
7738	1836	1935	7739A	B			185949	E067.2		1833	2014	7739A	B						
7739	2024	2122	7740A	B			204706	E040.4		2018	2158	7740A	B						
7740	2211	2309	7741A	A			223422	E013.6		2203	2345	7741A	A						
7741	2358	0056	7744R	A			002138	W013.3											

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
11 JULY 1974

THIR										ESMR									
11.5 + 6.7			INT	H	THIR	ASC. AND								INT	H				
DATA	ON	OFF	ORBIT	D	GRID	DESC.	NODE				DATA	ON	OFF	ORBIT	D				
ORBIT	HRMN	HRMN	STDN	R	CORR	TIME	LONG	HRMNSS	DEG		ORBIT	HRMN	HRMN	STDN	R				
DAYTIME THIR										ASC. NODE									
7742	0056	0145	7744R	A		011518	E153.3				7742	2349	0147	7744R	A				
7743	0244	0333	7743R	B		030234	E126.5				7743	0147	0343	7743R	B				
7744	0431	0520	7744R	B		044950	E099.7				7744	0349	0527	7744R	B				
7745	0618	0707	7745R	B		063707	E072.9				7745	0532	0714	7745R	B				
7746	0806	0854	7746A	B		080423	E046.0				7746	0720	0856	7746A	B				
7747	0953	1041	7747A	B		101140	E019.2				7747	0901	1042	7747A	B				
7748	1140	1224	7748A	B		115856	W007.6				7748	1047	1225	7748A	B				
7749	1327	1410	7749A	B		134613	W034.4				7749	1231	1411	7749A	B				
7750	1515	1554	7750A	B		153329	W061.2				7750	1417	1558	7750A	B				
7751	1702	1741	7751A	B		172046	W088.1				7751	1603	1742	7751A	B				
7752	1849	1926	7752A	B		190802	W114.9				7752	1748	1928	7752A	B				
7752	1932	1938	7753A	B							7753	1932	2110	7753A	B				
7753	2036	2109	7753A	B		205518	W141.7				7754	2115	2259	7754A	B				
7753	2115	2125	7754A	B															
7754	2224	2257	7754A	B		224235	W168.5												
NIGHTTIME THIR										DESC. NODE					NEMS - SCR - ITPR				
7742	0147	0244	7743R	B		020855	W041.1				2349	0147		7744R	A				
7743	0333	0342	7743R	B		035611	W066.9				0147	0343		7743R	B				
7743	0349	0431	7744R	B							0349	0527		7744R	B				
7744	0520	0526	7744R	B		054328	W093.7				0532	0714		7745R	B				
7744	0532	0618	7745R	B							0720	0856		7746A	B				
7745	0707	0713	7745R	B		073044	W120.5				0901	1042		7747A	B				
7745	0720	0806	7746A	B							1047	1226		7748A	B				
7746	0901	0953	7747A	B		091801	W147.4				1231	1412		7749A	B				
7747	1047	1140	7748A	B		110517	W174.2				1417	1558		7750A	B				
7748	1231	1327	7749A	B		125234	E159.0				1603	1743		7751A	B				
7749	1417	1515	7750A	B		143950	E132.2				1748	1928		7752A	B				
7750	1604	1702	7751A	B		162706	E105.4				1932	2111		7753A	B				
7751	1751	1849	7752A	B		181423	E078.5				2115	2259		7754A	B				
7752	1938	2036	7753A	B		200139	E051.7												
7753	2125	2224	7754A	B		214856	E024.9												
7754						233612	W001.9												

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
12 JULY 1974

THIR						ESMR											
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11.5 + 6.7		INT	H	THIR	ASC. AND			INT	H								
DATA	ON	OFF	ORBIT	D	DESC. NODE			ORBIT	D								
ORBIT	HRMN	HRMN	+	R	TIME LONG			+	R								
			STDN	S	LALJ	HRMNSS	DEG	STDN	S								
DAYTIME THIR						ASC. NODE											
7755*	0043	0100	7757R	A		002951	E164.7	7756	0043	0241	7757R	A					
7756	0158	0240	7757R	A		021708	E137.9	7757	0241	0440	7757R	B					
7756	0241	0247	7757R	B				7758	0447	0628	7758R	B					
7757	0346	0434	7757R	B		040424	E111.1	7759	0635	0809	7759A	B					
7758	0533	0622	7758R	B		055141	E084.2	7760	0814	1000	7760A	B					
7759	0720	0807	7759A	B		073857	E057.4	7761	1005	1142	7761A	B					
7760	0907	0956	7760A	B		092613	E030.6	7762	1147	1331	7762A	B					
7761	1055	1140	7761A	B		111330	E003.8	7763	1336	1514	7763A	B					
7762	1242	1329	7762A	B		130046	W023.1	7764	1520	1659	7764A	B					
7763	1429	1513	7763A	B		144803	W049.9	7765	1703	1840	7765A	B					
7764	1616	1657	7764A	B		163519	W076.7	7766	1845	2027	7766A	B					
7765	1804	1836	7765A	B		182236	W103.5	7767	2032	2215	7767A	B					
7765	1845	1853	7766A	B				7768	2221	0001	7768A	B					
7766	1951	2025	7766A	B		200952	W130.3										
7766	2031	2040	7767A	B													
7767	2138	2213	7767A	B		215708	W157.2										
7767	2219	2227	7768A	B													
7768	2325	0000	7768A	B		234425	E176.0										
7768	0006	0014	7771R	A													
*DIFFERENT 6.7 TIMES																	
7755	0046	0100	7757R	A													
NIGHTTIME THIR						DESC. NODE						NEMS - SCR - ITPR					
7755	0100	0158	7757R	A		012329	W028.7		0043	0241	7757R	A					
7756	0247	0346	7757R	B		031045	W055.5		0241	0440	7757R	B					
7757	0447	0533	7758R	B		045801	W082.4		0447	0628	7758R	B					
7758	0622	0628	7758R	B		064518	W109.2		0635	0810	7759A	B					
7758	0635	0720	7759A	B					0814	1000	7760A	B					
7759	0814	0907	7760A	B		083234	W136.0		1005	1142	7761A	B					
7760	1005	1055	7761A	B		101951	W162.8		1146	1331	7762A	B					
7761	1146	1242	7762A	B		120707	E170.4		1336	1515	7763A	B					
7762	1336	1429	7763A	B		135424	E143.5		1520	1658	7764A	B					
7763	1520	1616	7764A	B		154140	E116.7		1703	1840	7765A	B					
7764	1705	1804	7765A	B		172856	E089.9		1845	2027	7766A	B					
7765	1853	1951	7766A	B		191613	E063.1		2031	2215	7767A	B					
7766	2040	2138	7767A	B		210329	E036.3		2219	0002	7768A	B					
7767	2227	2325	7768A	B		225046	E009.5										
7768	0014	0113	7771R	A		003802	W017.4										

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
13 JULY 1974

THIR										ESMR									
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		11.5 + 6.7		INT	H	THIR	ASC. AND							INT	H				
		ON	OFF	ORBIT	D	GRID	DESC. NODE					ON	OFF	ORBIT	D				
DATA				+	R	CORR	TIME	LONG		DATA				+	R				
ORBIT	HRMN	HRMN	STDN	S	LALO	HRMNSS	DEG			ORBIT	HRMN	HRMN	STDN	S					
DAYTIME THIR										ASC. NODE									
7769	0113	0202	7771R	A		013141	E149.2			7769	0007	0206	7771R	A					
7770	0300	0349	7770R	B		031858	E122.4			7770	0206	0357	7770R	B					
7771	0447	0536	7771R	B		050614	E095.6			7771	0404	0542	7771R	B					
7772	0635	0722	7772A	B		065331	E068.8			7772	0548	0716	7772A	B					
7773	0822	0910	7773A	B		084047	E042.0			7773	0729	0911	7773A	B					
7774	1009	1057	7774A	B		102804	E015.1			7774	0917	1058	7774A	B					
7775	1156	1244	7775A	B		121520	W011.7			7775	1103	1245	7775A	B					
7776	1344	1427	7776A	B		140236	W038.5			7776	1250	1429	7776A	B					
7777	1531	1612	7777A	B		154953	W065.4			7777	1433	1613	7777A	B					
7778	1718	1757	7779A	B		173709	W092.2			7778	1618	1759	7779A	B					
7778	1759	1807	7779A	A						7779	1800	1943	7779A	A					
7779	1905	1942	7779A	A		192426	W119.0			7780	1945	2129	7780A	B					
7779	1944	1954	7780A	B						7781	2135	2315	7781A	B					
7780	2053	2127	7780A	B		211142	W145.8												
7780	2134	2142	7781A	B															
7781	2240	2313	7781A	B		225859	W172.6												
NIGHTTIME THIR										DESC. NODE									
7769	0205	0300	7770R	B		022519	W044.2												
7770	0349	0356	7770R	B		041235	W071.0												
7770	0404	0447	7771R	B															
7771	0536	0542	7771R	B		055952	W097.8												
7771	0548	0635	7772A	B															
7772	0729	0822	7773A	B		074708	W124.7												
7773	0917	1009	7774A	B		093424	W151.5												
7774	1103	1156	7775A	B		112141	W178.3												
7775	1251	1344	7776A	B		130857	E154.9												
7776	1433	1531	7777A	B		145614	E128.1												
7777	1620	1718	7779A	B		164330	E101.2												
7778	1807	1905	7779A	A		183047	E074.4												
7779	1954	2053	7780A	B		201803	E047.6												
7780	2142	2240	7781A	B		220519	E020.8												
7781						235236	W006.0												
										NEMS - SCR - ITPR									

										0007	0206		7771R	A					
										0205	0358		7770R	B					
										0404	0543		7771R	B					
										0548	0717		7772A	B					
										0729	0912		7773A	B					
										0917	1059		7774A	B					
										1103	1246		7775A	B					
										1251	1429		7776A	B					
										1433	1613		7777A	B					
										1618	1759		7779A	B					
										1759	1944		7779A	A					
										1944	2129		7780A	B					
										2134	2315		7781A	B					

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
14 JULY 1974

THIR										ESMR				
DATA ORBIT	11.5 + 6.7		INT ORBIT	H	THIR D GRID	ASC. AND DESC. NODE		TIME HRMNSS	LONG DEG	DATA ORBIT	ON OFF		INT ORBIT	H
	ON	OFF	+	R	CORR						HRMN	HRMN	+	R
	HRMN	HRMN	STDN	S	LALJ								STDN	S
DAYTIME THIR										ASC. NODE				
7782	0045	0116	7784R	A		004615	E160.6			7783	0046	0245	7784R	A
7783	0215	0243	7784R	A		023331	E133.8			7784	0245	0443	7784R	B
7783	0244	0304	7784R	B						7785	0504	0645	7785R	B
7784	0402	0441	7784R	B		042048	E107.0			7786	0651	0825	7786A	B
7785	0549	0638	7785R	B		060804	E080.1			7787	0830	1012	7787A	B
7786	0736	0823	7786A	B		075521	E053.3			7788	1017	1209	7788A	B
7787	0924	1011	7787A	B		094237	E026.5			7789	1204	1343	7789A	B
7788	1111	1157	7788A	B		112954	W000.3			7790	1349	1528	7790A	B
7789	1258	1343	7789A	B		131710	W027.1			7791	1534	1712	7791A	B
7790	1445	1527	7790A	B		150426	W054.0			7792	1717	1856	7792A	B
7791	1633	1711	7791A	B		165143	W080.8			7793	1901	2045	7794A	B
7792	1820	1855	7792A	B		183859	W107.6			7794	2045	2232	7794A	A
7792	1901	1909	7794A	B										
7793	2007	2044	7794A	B		202616	W134.4							
7793	2046	2056	7794A	A										
7794	2155	2230	7794A	A		221332	W161.2							
NIGHTTIME THIR										DESC. NODE				
7782	0116	0215	7784R	A		013952	W032.8			NEMS - SCR - ITPR				
7783	0304	0402	7784R	B		032709	W059.7			0046	0244	7784R	A	
7784	0504	0549	7785R	B		051425	W086.5			0244	0443	7784R	B	
7785	0638	0644	7785R	B		070142	W113.3			0504	0645	7785R	B	
7785	0651	0736	7786A	B						0651	0825	7786A	B	
7786	0830	0924	7787A	B		084858	W140.1			0830	1012	7787A	B	
7787	1017	1111	7788A	B		103615	W166.9			1017	1159	7788A	B	
7788	1204	1258	7789A	B		122331	E166.3			1204	1344	7789A	B	
7789	1349	1445	7790A	B		141047	E139.5			1349	1528	7790A	B	
7790	1534	1633	7791A	B		155804	E112.6			1534	1713	7791A	B	
7791	1722	1820	7792A	B		174520	E085.8			1717	1856	7792A	B	
7792	1909	2007	7794A	B		193237	E059.0			1901	2046	7794A	B	
7793	2056	2155	7794A	A		211953	E032.2			2046	2232	7794A	A	
7794						230710	E005.4							

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
15 JULY 1974

THIR										ESMR				
11.5 + 6.7		INT	H	THIR	ASC. AND							INT	H	
DATA	ON	OFF	ORBIT	D	GRID	DESC.	NODE					ORBIT	D	
ORBIT	HRMN	HRMN	STDN	R	CORR	TIME	LONG					STDN	R	
				S	LALJ	HRMNSS	DEG						S	
DAYTIME THIR					ASC. NODE									
7795	0002	0031	7797R	A		000049	E172.0			7796	0002	0200	7797R	A
7796	0129	0159	7797R	A		014805	E145.1			7797	0200	0359	7797R	B
7796	0201	0218	7797R	B						7798	0420	0600	7798R	B
7797	0316	0357	7797R	B		033522	E118.3			7799	0605	0742	7799A	B
7798	0504	0553	7798R	B		052238	E091.5			7800	0746	0930	7800A	B
7799	0651	0740	7799A	B		070954	E064.7			7801	0934	1114	7801A	B
7800	0838	0927	7800A	B		085711	E037.9			7802	1119	1302	7802A	B
7801	1025	1112	7801A	B		104427	E011.0			7803	1307	1447	7803A	B
7802	1213	1301	7802A	B		123144	W015.8			7804	1451	1630	7804A	B
7803	1400	1444	7803A	B		141900	W042.6			7805	1635	1811	7805A	B
7804	1547	1629	7804A	B		160617	W069.4			7806	1816	2000	7806A	B
7805	1735	1810	7805A	B		175333	W096.2			7807	2015	2144	7807A	B
7805	1817	1823	7806A	B						7808	2148	2231	7808A	B
7806	1922	1959	7806A	B		194049	W123.1							
7806	2006	2011	7807A	B										
7807	2109	2142	7807A	B		212806	W149.9							
7807	2148	2158	7808A	B										
7808	2256	2330	7808A	B		231523	W176.7							
7808	2333	2345	7811R	A										
NIGHTTIME THIR					DESC. NODE					NEMS - SCR - ITPR				
7795	0031	0129	7797R	A		005426	W021.5			0002	0200	7797R	A	
7796	0218	0316	7797R	B		024142	W048.3			0200	0359	7797R	B	
7797	0420	0504	7798R	B		042859	W075.1			0420	0600	7798R	B	
7798	0553	0559	7798R	B		061615	W101.9			0605	0742	7799A	B	
7798	0605	0651	7799A	B						0747	0930	7800A	B	
7799	0747	0838	7800A	B		080332	W128.7			0934	1114	7801A	B	
7800	0934	1025	7801A	B		095048	W155.6			1119	1303	7802A	B	
7801	1119	1213	7802A	B		113804	E177.6			1307	1447	7803A	B	
7802	1317	1400	7803A	B		132521	E150.8			1451	1631	7804A	B	
7803	1452	1547	7804A	B		151237	E124.0			1635	1812	7805A	B	
7804	1636	1735	7805A	B		165954	E097.2			1816	2000	7806A	B	
7805	1823	1922	7806A	B		184710	E070.4			2139	2143	7807A	B	
7806	2011	2109	7807A	B		203427	E043.5			2148	2332	7808A	B	
7807	2158	2256	7808A	B		222143	E016.7							
7808	2345	0044	7811R	A		000901	W010.1							

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
16 JULY 1974

THIR										ESMR									
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DATA	11.5 + 6.7		INT	H	THIR	ASC. AND		DESC. NODE		DATA	ON OFF		INT	H	THIR	ASC. AND		DESC. NODE	
ORBIT	HRMN	HRMN	ORBIT	D	GRID	TIME	LONG	TIME	DEG	ORBIT	HRMN	HRMN	ORBIT	D	GRID	TIME	DEG	TIME	DEG
			STDN	S	LALO	HRMNSS							STDN	S	LALO	HRMNSS			
DAYTIME THIR										ASC. NODE									
7809	0044	0131	7811R	A		010240	E150.5			7809	2333	0133	7811R	A					
7810	0231	0320	7810R	B		024956	E129.7			7810	0133	0331	7810R	B					
7811	0418	0507	7811R	B		043713	E102.8			7811	0338	0515	7811R	B					
7812	0605	0654	7812R	B		062429	E076.0			7812	0520	0702	7812R	B					
7813	0753	0842	7813A	B		081145	E049.2			7813	0707	0845	7813A	B					
7814	0940	1027	7814A	B		095902	E022.4			7814	0850	1027	7814A	B					
7815	1127	1214	7815A	B		114618	W004.4			7815	1033	1215	7815A	B					
7816	1314	1359	7816A	B		133335	W031.3			7816	1220	1400	7816A	B					
7817	1502	1544	7817A	B		152051	W058.1			7817	1405	1545	7817A	B					
7818	1649	1728	7818A	B		170808	W084.9			7818	1551	1730	7818A	B					
7819	1836	1913	7819A	B		185524	W111.7			7819	1734	1915	7819A	B					
7819	1920	1925	7821A	B						7820	1920	2101	7821A	B					
7820	2024	2100	7821A	B		204241	W138.5			7821	2102	2249	7821A	A					
7820	2102	2113	7821A	A															
7821	2211	2247	7821A	A		222957	W165.4												
NIGHTTIME THIR										DESC. NODE									
7809	0133	0231	7810R	B		015617	W037.0			NEMS - SCR - ITPR									
7810	0320	0330	7810R	B		034334	W063.8			-----									
7810	0337	0418	7811R	B						2332	0132	7811R	A						
7811	0507	0514	7811R	B		053050	W090.6			0132	0331	7810R	B						
7811	0520	0605	7812R	B						0337	0515	7811R	B						
7812	0654	0701	7812R	B		071806	W117.4			0519	0702	7812R	B						
7812	0707	0753	7813A	B						0707	0846	7813A	B						
7813	0850	0940	7814A	B		090523	W144.2			0850	1028	7814A	B						
7814	1033	1127	7815A	B		105239	W171.0			1033	1215	7815A	B						
7815	1220	1314	7816A	B		123956	E162.2			1220	1400	7816A	B						
7816	1405	1502	7817A	B		142712	E135.3			1405	1546	7817A	B						
7817	1551	1649	7818A	B		161429	E108.5			1551	1730	7818A	B						
7818	1738	1836	7819A	B		180145	E081.7			1734	1915	7819A	B						
7819	1925	2024	7821A	B		194902	E054.9			1920	2102	7821A	B						
7820	2113	2211	7821A	A		213618	E028.1			2102	2249	7821A	A						
7821						232334	E001.2												

34

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
17 JULY 1974

THIR										ESMR									
DATA	11.5	+	6.7	INT	H	THIR	ASC. AND			DATA	ON	OFF	INT	H					
ORBIT	HRMN	HRMN	STDN	ORBIT	D	GRID	DESC. NODE			ORBIT	HRMN	HRMN	ORBIT	D					
				+	R	CORR	TIME LONG						+	R					
					S	LALD	HRMNSS DEG							S					
DAYTIME THIR										ASC. NODE									
7822	0017	0047	7824R	A			001713 E167.8			7823	0017	0215	7824R	A					
7823	0145	0214	7824R	A			020430 E141.0			7824	0216	0409	7824R	B					
7823	0216	0234	7824R	B						7825	0432	0615	7825R	B					
7824	0333	0413	7824R	B			035146 E114.2			7826	0622	0759	7826A	B					
7825	0520	0609	7825R	B			053903 E087.4			7827	0803	0945	7827A	B					
7826	0707	0756	7826A	B			072619 E060.5			7828	0950	1130	7828A	B					
7827	0854	0943	7827A	B			091336 E033.7			7829	1135	1316	7829A	B					
7828	1042	1129	7828A	B			110052 E006.9			7830	1323	1501	7830A	B					
7829	1229	1315	7829A	B			124809 W019.9			7831	1506	1644	7831A	B					
7830	1416	1456	7830A	B			143525 W046.7			7832	1650	1829	7832A	B					
7831	1604	1643	7831A	B			162241 W073.6			7833	1835	2012	7833A	B					
7832	1751	1828	7832A	B			180958 W100.4			7834	2018	2202	7834A	B					
7832	1835	1840	7833A	B															
7833	1938	2011	7833A	B			195714 W127.2												
7833	2018	2027	7834A	B															
7834	2125	2201	7834A	B			214431 W154.0												
7835	2333	0002	7838R	A			233147 E179.2												
NIGHTTIME THIR										DESC. NODE									
7822	0047	0145	7824R	A			011051 W025.6			0016	0215	7824R	A						
7823	0234	0333	7824R	B			025807 W052.4			0215	0409	7824R	B						
7824	0436	0520	7825R	B			044524 W079.2			0436	0616	7825R	B						
7825	0609	0615	7825R	B			063240 W106.0			0622	0759	7826A	B						
7825	0622	0707	7826A	B						0803	0946	7827A	B						
7826	0803	0854	7827A	B			081957 W132.9			0950	1130	7828A	B						
7827	0950	1042	7828A	B			100713 W159.7			1135	1317	7829A	B						
7828	1135	1229	7829A	B			115430 E173.5			1322	1502	7830A	B						
7829	1322	1416	7830A	B			134146 E146.7			1506	1644	7831A	B						
7830	1506	1604	7831A	B			152902 E119.9			1649	1830	7832A	B						
7831	1653	1751	7832A	B			171619 E093.0			1835	2013	7833A	B						
7832	1840	1938	7833A	B			190335 E066.2			2018	2202	7834A	B						
7833	2027	2125	7834A	B			205052 E039.4												
7834							223808 E012.6												
7835	0002	0100	7838R	A			002525 W014.2												

**TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
18 JULY 1974**

THIR										ESMR									
-----										-----									
DATA	ON	OFF	INT	H	THIR	ASC. AND				DATA	ON	OFF	INT	H	THIR	ASC. AND			
ORBIT	HRMN	HRMN	ORBIT	D	GRID	DESC. NODE	TIME	LONG		ORBIT	HRMN	HRMN	ORBIT	D	GRID	DESC. NODE	TIME	LONG	
			+	R	CORR								+	R	CORR				
			STDN	S	LALJ	HRMNSS	DEG						STDN	S	LALJ	HRMNSS	DEG		
DAYTIME THIR										ASC. NODE									
7836	0100	0130	7838R	A		011904	E152.4			7836	2334	0131	7838R	A					
7836	0131	0149	7837R	B						7837	0140	0330	7837R	B					
7837	0247	0329	7837R	B		030620	E125.5			7838	0353	0530	7838R	B					
7838	0434	0523	7838R	B		045336	E098.7			7839	0536	0712	7839A	B					
7839	0622	0710	7839A	B		064053	E071.9			7840	0717	0902	7841A	B					
7840	0809	0858	7841A	B		082809	E045.1			7841	0904	1052	7841A	A					
7841	0956	1045	7841A	A		101526	E018.3			7842	1053	1233	7842A	B					
7842	1144	1232	7842A	B		120242	W008.6			7843	1238	1417	7843A	B					
7843	1331	1415	7843A	B		134959	W035.4			7844	1422	1558	7844A	B					
7844	1518	1557	7844A	B		153715	W062.2			7845	1603	1744	7845A	B					
7845	1705	1743	7845A	B		172432	W089.0			7846	1750	1927	7846A	B					
7846	1853	1925	7846A	B		191148	W115.8			7847	1932	2117	7848A	B					
7846	1931	1942	7848A	B						7848	2117	2305	7848A	A					
7847	2040	2116	7848A	B		205904	W142.7												
7847	2118	2129	7848A	A															
7848	2227	2303	7848A	A		224621	W169.5												
NIGHTTIME THIR										DESC. NODE									
7836	0149	0247	7837R	B		021241	W041.0			2333	0131	7838R	A						
7837	0353	0434	7838R	B		035957	W067.9			0139	0330	7837R	B						
7838	0523	0529	7838R	B		054714	W094.7			0353	0531	7838R	B						
7838	0535	0622	7839A	B						0535	0712	7839A	B						
7839	0717	0809	7841A	B		073430	W121.5			0717	0903	7841A	B						
7840	0903	0956	7841A	A		092147	W148.3			0903	1051	7841A	A						
7841	1051	1144	7842A	B		110903	W175.1			1051	1234	7842A	B						
7842	1239	1331	7843A	B		125620	E158.0			1239	1418	7843A	B						
7843	1422	1518	7844A	B		144336	E131.2			1422	1558	7844A	B						
7844	1607	1705	7845A	B		163053	E104.4			1603	1745	7845A	B						
7845	1754	1853	7846A	B		181809	E077.6			1750	1926	7846A	B						
7846	1942	2040	7848A	B		200525	E050.8			1931	2117	7848A	B						
7847	2129	2227	7848A	A		215242	E023.9			2118	2305	7848A	A						
7848						233958	W002.9												

NEMS - SCR - ITPR

DATA	ON	OFF	INT	H	THIR
ORBIT	HRMN	HRMN	STDN	S	LALJ
2333	0131		7838R	A	
0139	0330		7837R	B	
0353	0531		7838R	B	
0535	0712		7839A	B	
0717	0903		7841A	B	
0903	1051		7841A	A	
1051	1234		7842A	B	
1239	1418		7843A	B	
1422	1558		7844A	B	
1603	1745		7845A	B	
1750	1926		7846A	B	
1931	2117		7848A	B	
2118	2305		7848A	A	



TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
20 JULY 1974

THIR										ESHR									
		11.5 + 6.7		INT	H	THIR	ASC. AND					INT	H						
DATA	ON	OFF		ORBIT	D	GRID	DESC.	NODE		DATA	ON	OFF		ORBIT	D	DATA	ON	OFF	
ORBIT	HRMN	HRMN	+	STDN	R	CORR	TIME	LONG		ORBIT	HRMN	HRMN	+	STDN	S	ORBIT	HRMN	HRMN	+
					S	LALO	HRMNSS	DEG											
DAYTIME THIR										ASC. NODE									
7863	0116	0204		7865R	A		013528	E148.2		7863	0007	0205		7865R	A				
7864	0303	0337		7864R	B		032244	E121.4		7864	0212	0338		7864R	B				
7865	0451	0540		7865R	B		051000	E094.6		7865	0409	0547		7865R	B				
7866	0638	0727		7867A	B		065717	E067.8		7866	0553	0731		7867A	B				
7867	0825	0914		7867A	A		084433	E041.0		7867	0732	0917		7867A	A				
7868	1013	1102		7868A	B		103150	E014.2		7868	0918	1104		7868A	B				
7869	1200	1249		7869A	B		121906	W012.7		7869	1110	1252		7869A	B				
7870	1347	1431		7870A	B		140623	W039.5		7870	1256	1433		7870A	B				
7871	1534	1614		7871A	B		155339	W066.3		7871	1438	1615		7871A	B				
7872	1722	1758		7872A	B		174055	W093.1		7872	1621	1800		7872A	B				
7872	1804	1811		7873A	B					7873	1805	1944		7873A	B				
7873	1909	1943		7873A	B		192812	W120.0		7874	1950	2131		7874A	B				
7873	1949	1958		7874A	B					7875	2137	2316		7875A	B				
7874	2056	2129		7874A	B		211528	W146.8											
7874	2136	2145		7875A	B														
7875	2243	2318		7875A	B		230245	W173.6											
NIGHTTIME THIR										DESC. NODE									
7863	0205	0303		7864R	B		022905	W045.2		NEMS - SCR - ITPR									
7864	0409	0451		7865R	B		041621	W072.0		0007	0205		7865R	A					
7865	0540	0546		7865R	B		060338	W098.8		0205	0339		7864R	B					
7865	0553	0638		7867A	B					0410	0547		7865R	B					
7866	0731	0825		7867A	A		075054	W125.6		0553	0731		7867A	B					
7867	0918	1013		7868A	B		093811	W152.4		0731	0917		7867A	A					
7868	1109	1200		7869A	B		112527	W179.3		0918	1104		7868A	B					
7869	1256	1347		7870A	B		131243	E153.9		1110	1251		7869A	B					
7870	1438	1534		7871A	B		150000	E127.1		1256	1434		7870A	B					
7871	1623	1722		7872A	B		164716	E100.3		1438	1616		7871A	B					
7872	1811	1909		7873A	B		183433	E073.5		1621	1800		7872A	B					
7873	1958	2056		7874A	B		202149	E046.6		1804	1944		7873A	B					
7874	2145	2243		7875A	B		220906	E019.8		1949	2130		7874A	B					
7875							235622	W007.0		2138	2316		7875A	B					

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
21 JULY 1974

THIR							ESMR						
11.5 + 6.7		INT	H	THIR	ASC. AND						INT	H	
DATA	ON	OFF	ORBIT	D	GRID	DESC.	NODE				ORBIT	D	
ORBIT	HRMN	HRMN	+	R	CORR	TIME	LONG				+	R	
			STDN	S	LALJ	HRMNSS	DEG				STDN	S	
DAYTIME THIR							ASC. NODE						
7976	0049	0120	7878R	A		005001	E159.6	7977	0053	0247	7878R	A	
7977	0218	0246	7878R	A		023718	E132.8	7978	0248	0445	7878R	B	
7977	0247	0307	7878R	B				7979	0507	0648	7879R	B	
7978	0405	0445	7878R	B		042434	E106.0	7980	0654	0830	7880A	B	
7979	0552	0641	7879R	B		061151	E079.2	7981	0835	1017	7881A	B	
7980	0740	0828	7880A	B		075907	E052.3	7982	1022	1205	7882A	B	
7981	0927	1016	7881A	B		094623	E025.5	7983	1210	1348	7883A	B	
7982	1114	1203	7882A	B		113340	W001.3	7984	1353	1534	7884A	B	
7983	1302	1346	7883A	B		132056	W028.1	7985	1539	1715	7885A	B	
7984	1449	1533	7884A	B		150813	W055.0	7986	1720	1900	7886A	B	
7985	1636	1714	7885A	B		165529	W081.8	7987	1906	2045	7887A	B	
7986	1823	1859	7886A	B		184246	W108.6	7988	2050	2233	7888A	B	
7986	1906	1912	7887A	B									
7987	2011	2044	7887A	B		203002	W135.4						
7987	2050	2100	7888A	B									
7988	2158	2231	7888A	B		221719	W162.2						
NIGHTTIME THIR							DESC. NODE						
7976	0120	0218	7878R	A		014339	W033.8	NEMS - SCR - ITPR					
7977	0307	0405	7878R	B		033055	W060.6	0048	0247	7878R	A		
7978	0506	0552	7879R	B		051811	W087.5	0247	0446	7878R	B		
7979	0641	0647	7879R	B		070528	W114.3	0506	0649	7879R	B		
7979	0654	0740	7880A	B				0654	0830	7880A	B		
7980	0835	0927	7881A	B		085244	W141.1	0835	1018	7881A	B		
7981	1023	1114	7882A	B		104001	W167.9	1023	1205	7882A	B		
7982	1210	1302	7883A	B		122717	E165.3	1210	1348	7883A	B		
7983	1353	1449	7884A	B		141434	E138.5	1353	1534	7884A	B		
7984	1539	1636	7885A	B		160150	E111.7	1539	1716	7885A	B		
7985	1725	1823	7886A	B		174907	E084.8	1720	1900	7886A	B		
7986	1912	2011	7887A	B		193623	E058.0	1906	2046	7887A	B		
7987	2100	2158	7888A	B		212339	E031.2	2050	2232	7888A	B		
7988						231056	E004.4						

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
22 JULY 1974

THIR										ESMR									
-----										-----									
11.5 + 6.7			INT	H	THIR	ASC. AND								INT	H				
DATA	ON	OFF	ORBIT	D	GRID	DESC.	NODE	TIME	LONG		DATA	ON	OFF	ORBIT	D				
ORBIT	HRMN	HRMN	+	R	CORR						ORBIT	HRMN	HRMN	+	R				
			STDN	S	LALJ	HRMNSS	DEG							STDN	S				
DAYTIME THIR										ASC. NODE									
7889	0004	0034	7891R	A		000435	E171.0				7890	0005	0203	7891R	A				
7890	0132	0202	7891R	A		015151	E144.2				7891	0203	0402	7891R	B				
7890	0204	0221	7891R	B							7892	0424	0607	7892R	B				
7891	0320	0401	7891R	B		033908	E117.3				7893	0612	0747	7894A	B				
7892	0507	0556	7892R	B		052624	E090.5				7894	0748	0934	7894A	A				
7893	0654	0743	7894R	B		071341	E063.7				7895	0936	1122	7895A	B				
7894	0841	0930	7894R	A		090057	E036.9				7896	1127	1305	7896A	B				
7895	1029	1118	7895R	B		104814	E010.1				7897	1311	1448	7897A	B				
7896	1216	1304	7896R	B		123530	W016.8				7898	1455	1633	7898A	B				
7897	1403	1448	7897R	B		142246	W043.6				7899	1638	1818	7899A	B				
7898	1551	1632	7898R	B		161003	W070.4				7900	1825	2003	7900A	B				
7899	1738	1817	7899R	B		175719	W097.2				7901	2008	2148	7901A	B				
7900	1925	2001	7900R	B		194436	W124.0				7902	2153	2335	7902A	B				
7900	2008	2014	7901R	B															
7901	2112	2146	7901R	B		213152	W150.8												
7901	2153	2201	7902R	B															
7902	2300	2334	7902A	B		231909	W177.7												
7902	2335	2349	7905R	A															
NIGHTTIME THIR										DESC. NODE									
7889	0034	0132	7891R	A		005812	W022.4												
7890	0221	0320	7891R	B		024529	W049.3												
7891	0424	0507	7892R	B		043245	W076.1												
7892	0556	0605	7892R	B		062002	W102.9												
7892	0611	0654	7894A	B															
7893	0748	0841	7894A	A		080718	W129.7												
7894	0935	1029	7895A	B		095434	W156.6												
7895	1127	1216	7896A	B		114151	E176.7												
7896	1310	1403	7897A	B		132907	E149.8												
7897	1455	1551	7898A	B		151624	E123.0												
7898	1640	1738	7899A	B		170340	E096.2												
7899	1827	1925	7900A	B		185057	E069.4												
7900	2014	2112	7901A	B		203813	E042.6												
7901	2201	2300	7902A	B		222530	E015.8												
7902	2349	0047	7905R	A		001246	W011.1												
										NEMS - SCR - ITPR									

			0004	0203	7891R	A													
			0203	0402	7891R	B													
			0424	0606	7892R	B													
			0611	0748	7894A	B													
			0748	0935	7894A	A													
			0935	1122	7895A	B													
			1127	1306	7896A	B													
			1310	1450	7897A	B													
			1455	1634	7898A	B													
			1638	1819	7899A	B													
			1825	2003	7900A	B													
			2008	2148	7901A	B													
			2153	2335	7902A	B													

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
23 JULY 1974

THIR										ESMR									
-----										-----									
DATA	ON	OFF	INT	H	THIR	ASC. AND	DESC. NODE			DATA	ON	OFF	INT	H	THIR	ASC. AND	DESC. NODE		
ORBIT	HRMN	HRMN	ORBIT	D	GRID	TIME	LONG			ORBIT	HRMN	HRMN	ORBIT	D	GRID	TIME	LONG		
			+	R	CORR		DEG						+	R	CORR		DEG		
			STDN	S	LALJ	HRMNSS							STDN	S	LALJ	HRMNSS			
DAYTIME THIR										ASC. NODE									
7903	0047	0132	7905R	A		010625	E155.5			7903	2335	2359	7905R	A					
7904	0234	0323	7904R	B		025342	E128.7			7904	0134	0332	7904R	B					
7905	0421	0510	7905R	B		044054	E101.9			7905	0340	0520	7905R	B					
7906	0609	0658	7906R	B		062811	E075.1			7906	0525	0707	7906R	B					
7907	0756	0845	7907A	B		081527	E048.2			7907	0713	0848	7907A	B					
7908	0943	1032	7908A	B		100244	E021.4			7908	0853	1037	7908A	B					
7909	1131	1219	7909A	B		115000	W005.4			7909	1042	1222	7909A	B					
7910	1318	1404	7910A	B		133716	W032.2			7910	1226	1406	7910A	B					
7911	1505	1548	7911A	B		152433	W059.0			7911	1412	1548	7911A	B					
7912	1652	1733	7912A	B		171149	W085.9			7912	1555	1734	7912A	B					
7913	1840	1917	7913A	B		185906	W112.7			7913	1740	1918	7913A	B					
7913	1924	1929	7914A	B						7914	1923	2103	7914A	B					
7914	2027	2101	7914A	B		204622	W139.5			7915	2107	2247	7915A	B					
7914	2108	2116	7915A	B															
7915	2214	2245	7915A	B		223339	W166.3												
NIGHTTIME THIR										DESC. NODE									
7903	0136	0234	7904R	B		015959	W037.9			NEMS - SCR - ITPR									
7904	0323	0331	7904R	B		034715	W064.7			-----									
7904	0340	0421	7905R	B						2335	0133		7905R	A					
7905	0510	0518	7905R	B		053432	W091.5			0133	0332		7904R	B					
7905	0524	0609	7906R	B						0340	0519		7905R	B					
7906	0658	0706	7906R	B		072148	W118.3			0524	0707		7906R	B					
7906	0712	0756	7907A	B						0712	0848		7907A	B					
7907	0852	0943	7908A	B		090904	W145.2			0852	1036		7908A	B					
7908	1042	1131	7909A	B		105621	W172.0			1042	1221		7909A	B					
7909	1226	1318	7910A	B		124337	E161.2			1226	1406		7910A	B					
7910	1411	1505	7911A	B		143054	E134.4			1411	1549		7911A	B					
7911	1554	1652	7912A	B		161810	E107.6			1554	1735		7912A	B					
7912	1741	1840	7913A	B		180526	E080.7			1739	1919		7913A	B					
7913	1929	2027	7914A	B		195243	E053.9			1923	2103		7914A	B					
7914	2116	2214	7915A	B		213959	E027.1			2107	2246		7915A	B					
7915						232716	E000.3												

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
24 JULY 1974

THIR										ESMR									
-----										-----									
		11.5 + 6.7		INT	H	THIR	ASC. AND							INT	H				
DATA	ON	OFF	ORBIT	D	GRID	DESC. NODE	TIME	LONG		DATA	ON	OFF	ORBIT	D	R				
ORBIT	HRMN	HRMN	STDN	S	LALD	HRMNSS	DEG			ORBIT	HRMN	HRMN	STDN	S	R				
DAYTIME THIR										ASC. NODE									
7916	0021	0050	7918R	A		002055	E166.9			7917	0021	0217	7918R	A					
7917	0149	0218	7918R	A		020811	E140.0			7918	0220	0418	7918R	B					
7917	0220	0238	7918R	B						7919	0438	0622	7919R	B					
7918	0337	0417	7918R	B		035528	E113.2			7920	0627	0803	7921A	B					
7919	0523	0612	7919R	B		054244	E086.4			7921	0803	0951	7921A	A					
7920	0710	0759	7921A	B		073001	E059.6			7922	0952	1136	7922A	B					
7921	0858	0947	7921A	A		091717	E032.8			7923	1142	1320	7923A	B					
7922	1045	1134	7922A	B		110434	E006.0			7924	1325	1507	7924A	B					
7923	1232	1319	7923A	B		125150	W020.9			7925	1512	1648	7925A	B					
7924	1420	1504	7924A	B		143906	W047.7			7926	1653	1830	7926A	B					
7925	1607	1647	7925A	B		162623	W074.5			7927	1835	2017	7927A	B					
7926	1754	1829	7925A	B		181339	W101.3			7928	2022	2202	7928A	B					
7926	1836	1843	7927A	B						7929	2207	2352	7929A	B					
7927	1941	2015	7927A	B		200056	W128.1												
7927	2022	2030	7928A	B															
7928	2129	2201	7928A	B		214812	W155.0												
7928	2207	2218	7929A	B															
7929	2316	2351	7929A	B		233529	E178.2												
7929	2352	0005	7932R	A															
NIGHTTIME THIR										DESC. NODE									
7916	0050	0149	7918R	A		011432	W026.5												
7917	0238	0337	7918R	B		030149	W053.3												
7918	0439	0523	7919R	B		044905	W080.2												
7919	0612	0620	7919R	B		063621	W107.0												
7919	0626	0710	7921A	B															
7920	0804	0858	7921A	A		082338	W133.8												
7921	0952	1045	7922A	B		101054	W160.6												
7922	1141	1232	7923A	B		115811	E172.6												
7923	1325	1420	7924A	B		134527	E145.7												
7924	1512	1607	7925A	B		153243	E118.9												
7925	1658	1754	7926A	B		172000	E092.1												
7926	1843	1941	7927A	B		190716	E065.3												
7927	2030	2129	7928A	B		205433	E038.5												
7928	2218	2316	7929A	B		224149	E011.6												
7929	0005	0103	7932R	A		002906	W015.2												
										NEMS - SCR - ITPR									

	0020	0218	7918R	A						0020	0218	7918R	A						
	0219	0418	7918R	B						0219	0418	7918R	B						
	0439	0621	7919R	B						0439	0621	7919R	B						
	0626	0804	7921A	B						0626	0804	7921A	B						
	0804	0951	7921A	A						0804	0951	7921A	A						
	0952	1136	7922A	B						0952	1136	7922A	B						
	1141	1320	7923A	B						1141	1320	7923A	B						
	1325	1507	7924A	B						1325	1507	7924A	B						
	1512	1648	7925A	B						1512	1648	7925A	B						
	1653	1830	7926A	B						1653	1830	7926A	B						
	1835	2017	7927A	B						1835	2017	7927A	B						
	2022	2203	7928A	B						2022	2203	7928A	B						
	2207	2352	7929A	B						2207	2352	7929A	B						

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
25 JULY 1974

THIR										ESMR									
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DATA	11.5	+	6.7	INT	H	THIR	ASC. AND			DATA	ON	OFF	INT	H					
ORBIT	ON	OFF	ORBIT	D	GRID	DESC. NODE	TIME	LONG		ORBIT	HRMN	HRMN	ORBIT	D					
	HRMN	HRMN	STDN	R	CORR	HRMNSS	DEG				HRMN	HRMN	STDN	R					
				S	LALO									S					
DAYTIME THIR										ASC. NODE									
7930	0103	0149	7932R	A		012245	E121.4			7930	2352	0150	7932R	A					
7931	0250	0339	7931R	B		031001	E124.6			7931	0153	0349	7931R	B					
7932	0438	0527	7932R	B		045718	E097.8			7932	0356	0533	7932R	B					
7933	0625	0714	7933A	B		064434	E071.0			7933	0538	0717	7933A	B					
7934	0812	0901	7934A	B		083151	E044.2			7934	0722	0904	7934A	B					
7935	1000	1048	7935A	B		101907	E017.4			7935	0910	1050	7935A	B					
7936	1147	1233	7936A	B		120623	W009.5			7936	1056	1235	7936A	B					
7937	1334	1419	7937A	B		135340	W036.3			7937	1240	1420	7937A	B					
7938	1521	1605	7938A	B		154056	W063.2			7938	1425	1605	7938A	B					
7939	1709	1747	7939A	B		172813	W090.0			7939	1612	1748	7939A	B					
7940	1856	1930	7940A	B		191529	W116.8			7940	1753	1931	7940A	B					
7940	1936	1945	7941A	B						7941	1936	2120	7941A	B					
7941	2043	2118	7941A	B		210246	W143.6			7942	2125	2304	7942A	B					
7941	2125	2132	7942A	B															
7942	2230	2303	7942A	B		225002	W170.4												
NIGHTTIME THIR										DESC. NODE									
7930	0152	0250	7931R	B		021622	W042.0			NEMS - SCR - ITPR									
7931	0339	0348	7931R	B		040338	W068.8			-----									
7931	0356	0438	7932R	B						2352	0150		7932R	A					
7932	0527	0533	7932R	B		055055	W095.6			0153	0349		7931R	B					
7932	0539	0625	7933A	B						0356	0534		7932R	B					
7933	0722	0812	7934A	B		073811	W122.5			0539	0717		7933A	B					
7934	0910	1000	7935A	B		092528	W149.3			0722	0904		7934A	B					
7935	1055	1147	7936A	B		111244	W176.1			0909	1050		7935A	B					
7936	1240	1334	7937A	B		130001	E157.1			1055	1236		7936A	B					
7937	1425	1521	7938A	B		144717	E130.3			1240	1420		7937A	B					
7938	1611	1709	7939A	B		163433	E103.5			1425	1606		7938A	B					
7939	1758	1856	7940A	B		182150	E076.6			1611	1749		7939A	B					
7940	1945	2043	7941A	B		200906	E049.8			1753	1931		7940A	B					
7941	2132	2230	7942A	B		215623	E023.0			1936	2120		7941A	B					
7942						234339	W003.8			2125	2304		7942A	B					

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
26 JULY 1974

THIR						ESMR					
-----						-----					
DATA	11.5	6.7	INT	H	THIR	ASC. AND				INT	H
ORBIT	ON	OFF	ORBIT	D	GRID	DESC. NODE				ORBIT	D
	HRMN	HRMN	+	R	CORR	TIME LONG				+	R
			STDN	S	LALO	HRMNSS DEG				STDN	S
DAYTIME THIR						ASC. NODE					
7943	0038	0107	7945R	A		003718 E162.8				7944	0037 0235 7945R A
7944	0205	0234	7945R	A		022435 E136.0				7945	0236 0435 7945R B
7944	0236	0254	7945R	B						7946	0456 0638 7946R B
7945	0352	0434	7945R	B		041151 E109.1				7947	0643 0820 7948A B
7946	0539	0628	7946R	B		055908 E082.3				7948	0820 1007 7948A A
7947	0727	0816	7948A	B		074624 E055.5				7949	1007 1145 7949A B
7948	0914	1003	7948A	A		093341 E028.7				7950	1159 1336 7950A B
7949	1101	1150	7949A	B		112057 E001.9				7951	1341 1520 7951A B
7950	1249	1335	7950A	B		130813 W025.0				7952	1527 1705 7952A B
7951	1436	1520	7951A	B		145530 W051.8				7953	1707 1905 7955A A
7952	1623	1703	7952A	B		164246 W078.6				7955	2018 2217 7955A B
7952	1707	1712	7955A	A							
7953	1810	1859	7955A	A		183003 W105.4					
7954	2018	2047	7955A	B		201719 W132.2					
7955	2145	2216	7955A	B		220436 W159.1					
7956	2354	0021	7958R	A		235152 E174.2					
NIGHTTIME THIR						DESC. NODE					
7943	0107	0205	7945R	A		013055 W030.6				0037 0235	7945R A
7944	0254	0352	7945R	B		031812 W057.5				0236 0435	7945R B
7945	0456	0539	7946R	B		050528 W084.3				0455 0638	7946R B
7946	0628	0637	7946R	B		065245 W111.1				0643 0820	7948A B
7946	0643	0727	7948A	B						0820 1007	7948A A
7947	0821	0914	7948A	A		084001 W137.9				1008 1146	7949A B
7948	1008	1101	7949A	B		102718 W164.7				1159 1337	7950A B
7949	1159	1249	7950A	B		121434 E168.5				1341 1522	7951A B
7950	1341	1436	7951A	B		140150 E141.7				1527 1704	7952A B
7951	1527	1623	7952A	B		154907 E114.8				1707 1905	7955A A
7952	1712	1810	7955A	A		173623 E088.0				2018 2218	7955A B
7953						192340 E061.2					
7954	2047	2145	7955A	B		211056 E034.4					
7955						225812 E007.6					
7956	0021	0119	7958R	A		004529 W019.3					
						NEMS - SCR - ITPR					

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
27 JULY 1974

THIR										ESMR									
-----										-----									
		11.5 + 6.7		INT	H	THIR	ASC. AND							INT	H				
DATA	ON	OFF		ORBIT	D	GRID	DESC.	NODE		DATA	ON	OFF		ORBIT	D				
ORBIT	HRMN	HRMN	STDN	R	CORR	LALO	HRMNS	DEC		ORBIT	HRMN	HRMN	STDN	R	S				
DAYTIME THIR										ASC. NODE									
7957	0119	0151	7858R	A			013908	E147.3		7957	2353	0152	7958R	A					
7957	0153	0208	7858R	B						7958	0152	0350	7958R	B					
7958	0307	0350	7858R	B			032625	E120.5		7959	0411	0553	7959R	B					
7959	0454	0543	7859R	B			051341	E093.7		7960	0559	0735	7960A	B					
7960	0641	0730	7860A	B			070058	E066.9		7961	0740	0920	7961A	B					
7961	0828	0917	7861A	B			084814	E040.1		7962	0925	1104	7962A	B					
7962	1016	1102	7862A	B			103530	E013.2		7963	1109	1251	7963A	B					
7963	1203	1250	7863A	B			122247	W013.6		7964	1257	1436	7964A	B					
7964	1350	1435	7864A	B			141003	W040.4		7965	1441	1619	7965A	B					
7965	1538	1618	7865A	B			155720	W067.2		7966	1625	1805	7966A	B					
7966	1725	1803	7966A	B			174436	W094.0		7967	1809	1950	7967A	B					
7967	1912	1947	7867A	B			193153	W120.9		7968	1955	2135	7968A	B					
7967	1955	2001	7868A	B						7969	2140	2321	7969A	B					
7968	2059	2134	7868A	B			211909	W147.7											
7968	2141	2148	7869A	B															
7969	2247	2320	7969A	B			230625	W174.5											
NIGHTTIME THIR										DESC. NODE									
7957	0208	0307	7958R	B			023245	W046.1											
7958	0411	0454	7959R	B			042002	W072.9											
7959	0543	0552	7959R	B			060718	W099.7											
7959	0559	0641	7960A	B															
7960	0740	0828	7961A	B			075435	W126.6											
7961	0925	1016	7962A	B			094151	W153.4											
7962	1109	1203	7963A	B			112907	E179.8											
7963	1257	1350	7964A	B			131624	E153.0											
7964	1441	1538	7965A	B			150340	E126.2											
7965	1627	1725	7966A	B			165057	E099.3											
7966	1814	1912	7967A	B			183813	E072.5											
7967	2001	2059	7968A	B			202529	E045.7											
7968	2148	2247	7969A	B			221246	E018.9											
7969							000002	W007.9											

NEMS - SCR - ITPR									

2354	0152		7958R	A					
0152	0350		7958R	B					
0411	0554		7959R	B					
0559	0735		7960A	B					
0740	0919		7961A	B					
0925	1104		7962A	B					
1109	1252		7963A	B					
1257	1436		7964A	B					
1441	1620		7965A	B					
1624	1805		7966A	B					
1809	1950		7967A	B					
1955	2135		7968A	B					
2140	2322		7969A	B					

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
28 JULY 1974

THIR										ESMR									
-----										-----									
DATA	11.5 + 6.7		INT	H	THIR	ASC. AND				DATA			INT	H					
ORBIT	ON	OFF	ORBIT	D	GRID	DESC.	TIME	LONG	NODE	ORBIT	ON	OFF	ORBIT	D	GRID	DESC.	TIME	LONG	NODE
	HRMN	HRMN	STDN	R	CORR		HRMNSS	DEG			HRMN	HRMN	STDN	R	CORR		HRMNSS	DEG	
				S	LALO									S	LALO				
DAYTIME THIR										ASC. NODE									
7970	0055	0123	7972R	A			005342	E158.7		7971	0055	0253	7972R	A					
7971	0221	0252	7972R	A			024058	E131.9		7972	0253	0452	7972R	B					
7971	0254	0310	7972R	B						7973	0510	0652	7973R	B					
7972	0408	0451	7972R	B			042815	E105.1		7974	0658	0836	7975A	B					
7973	0556	0645	7973R	B			061531	E078.2		7975	0837	1023	7975A	A					
7974	0743	0832	7975A	B			080248	E051.4		7976	1024	1208	7976A	B					
7975	0930	1019	7975A	A			095004	E024.6		7977	1214	1351	7977A	B					
7976	1118	1207	7976A	B			113720	W002.2		7978	1356	1535	7978A	B					
7977	1305	1350	7977A	B			132437	W029.0		7979	1540	1718	7979A	B					
7978	1452	1534	7978A	B			151153	W055.9		7980	1735	1921	7982A	A					
7979	1639	1718	7979A	B			165910	W082.7		7982	2034	2234	7982A	B					
7980	1827	1916	7982A	A			184626	W109.5											
7981*	2034	2103	7982A	B			203343	W136.3											
7982	2201	2232	7982A	B			222059	W163.1											
• DIFFERENT 6.7 TIMES																			
7981	2038	2103	7982A	B															
NIGHTTIME THIR										DESC. NODE									
7970	0123	0221	7972R	A			014719	W034.7		NEMS - SCR - ITPR									
7971	0310	0408	7972R	B			033435	W061.6		-----									
7972	0511	0556	7973R	B			052152	W088.4		0055	0253	7972R	A						
7973	0645	0651	7973R	B			070908	W115.2		0253	0452	7972R	B						
7973	0658	0743	7975A	B						0511	0653	7973R	B						
7974	0837	0930	7975A	A			085624	W142.0		0658	0836	7975A	B						
7975	1025	1118	7976A	B			104341	W168.8		0836	1024	7975A	A						
7976	1214	1305	7977A	B			123057	E164.4		1024	1209	7976A	B						
7977	1357	1452	7978A	B			141814	E137.6		1214	1352	7977A	B						
7978	1541	1639	7979A	B			160530	E110.7		1357	1536	7978A	B						
7979	1732	1827	7982A	A			175246	E083.9		1540	1719	7979A	B						
7980	1916	1925	7982A	A			194003	E057.1		1735	1927	7982A	A						
7981	2103	2201	7982A	B			212719	E030.3		2034	2233	7982A	B						
7982							231436	E003.5											

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
29 JULY 1974

THIR						ESMR					
DATA	11.5 + 6.7		INT	H	THIR	ASC. AND			INT	H	
ORBIT	ON	OFF	ORBIT	D	GRID	DESC. NODE			ORBIT	D	
	HRMN	HRMN	STDN	R	CORR	TIME LONG			STDN	R	
				S	LALJ	HRMNSS DEG				S	
DAYTIME THIR						ASC. NODE					
7983	0009	0037	7985R	A		000815 E170.0	7984	0008	0207	7985R	A
7984	0136	0206	7985R	A		015532 E143.2	7985	0207	0406	7985R	B
7984	0208	0225	7985R	B			7986	0426	0607	7986R	B
7985	0323	0405	7985R	B		034248 E116.4	7987	0613	0750	7987A	B
7986	0510	0559	7986R	B		053005 E089.6	7988	0755	0937	7988A	B
7987	0658	0747	7987A	B		071721 E062.8	7989	0942	1120	7989A	B
7988	0845	0934	7988A	B		090437 E036.0	7990	1125	1310	7990A	B
7989	1032	1119	7989A	B		105154 E009.1	7991	1315	1453	7991A	B
7990	1219	1308	7990A	B		123910 W017.7	7992	1458	1637	7992A	B
7991	1407	1452	7991A	B		142627 W044.5	7993	1642	1823	7993A	B
7992	1554	1634	7992A	B		161343 W071.3	7994	1828	2007	7994A	B
7993	1741	1820	7993A	B		180100 W098.1	7995	2013	2155	7995A	B
7994	1928	2006	7994A	B		194816 W125.0	7996	2200	2240	7996A	B
7995	2116	2153	7995A	B		213532 W151.8					
7995	2200	2205	7996A	B							
7996	2303	2338	7996A	B		232249 W178.6					
7996	2339	2352	7999R	A							
NIGHTTIME THIR						DESC. NODE	NEWS - SCR - ITPR				
7983	0037	0136	7985R	A		010152 W023.4	0008	0207	7985R	A	
7984	0225	0323	7985R	B		024909 W050.2	0207	0406	7985R	B	
7985	0426	0510	7986R	B		043625 W077.0	0426	0608	7986R	B	
7986	0559	0607	7986R	B		062341 W103.8	0613	0751	7987A	B	
7986	0613	0658	7987A	B			0755	0938	7988A	B	
7987	0756	0845	7988A	B		081058 W130.6	0942	1121	7989A	B	
7988	0942	1032	7989A	B		095814 W157.5	1126	1310	7990A	B	
7989	1126	1219	7990A	B		114931 E175.7	1315	1454	7991A	B	
7990	1315	1407	7991A	B		133247 E148.9	1459	1638	7992A	B	
7991	1459	1554	7992A	B		152003 E122.1	1642	1823	7993A	B	
7992	1643	1741	7993A	B		170720 E095.3	1828	2008	7994A	B	
7993	1830	1928	7994A	B		185436 E068.5	2013	2154	7995A	B	
7994	2017	2116	7995A	B		204153 E041.6	2200	2339	7996A	B	
7995	2205	2303	7996A	B		222909 E014.8					
7996	2352	0050	7999R	A		001626 W012.0					

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
30 JULY 1974

THIR										ESMR									
		11.5 + 6.7		INT	H	THIR	ASC. AND							INT	H				
DATA	ON	OFF	ORBIT	D	GRID	DESC.	NODE			DATA	ON	OFF	ORBIT	D					
ORBIT	HRMN	HRMN	STDN	R	CORR	TIME	LONG			ORBIT	HRMN	HRMN	STDN	R					
				S	LALD	HRMNSS	DEG							S					
DAYTIME THIR										ASC. NODE									
7997	0050	0136	7999R	A		011010	E154.6			7997	2338	0137	7999R	A					
7998	0237	0326	7998R	B		025726	E127.8			7998	0137	0336	7998R	B					
7999	0425	0514	7999R	B		044442	E100.9			7999	0344	0520	7999R	B					
8000	0612	0701	8000R	B		063159	E074.1			8000	0525	0710	8000R	B					
8001	0759	0848	8002A	B		081915	E047.3			8001	0714	0854	8002A	B					
8002	0947	1036	8002A	A		100632	E020.5			8002	0854	1040	8002A	A					
8003	1134	1223	8003A	B		115348	W006.3			8003	1040	1225	8003A	B					
8004	1321	1408	8004A	B		134105	W033.2			8004	1231	1410	8004A	B					
8005	1508	1552	8005A	B		152821	W060.0			8005	1414	1553	8005A	B					
8006	1656	1736	8007A	B		171537	W086.8			8006	1559	1737	8007A	B					
8006	1738	1745	8007A	A						8007	1738	1916	8007A	A					
8007	1843	1915	8007A	A		190254	W113.6			8008	1926	2109	8009A	B					
8007	1926	1932	8009A	B						8009	2215	2259	8009A	A					
8008	2030	2106	8009A	B		205010	W140.4												
8009	2222	2257	8009A	A		223727	W167.3												
NIGHTTIME THIR										DESC. NODE									
7997	0139	0237	7998R	B		020346	W038.9			NEMS - SCR - ITPR									
7998	0326	0335	7998R	B		035103	W065.7			2339	0137	7999R	A						
7998	0344	0425	7999R	B						0137	0336	7998R	B						
7999	0514	0519	7999R	B		053819	W092.5			0344	0520	7999R	B						
7999	0525	0612	8000R	B						0525	0709	8000R	B						
8000	0701	0708	8000R	B		072535	W119.3			0714	0854	8002A	B						
8000	0714	0759	8002A	B						0854	1040	8002A	A						
8001	0854	0947	8002A	A		091252	W146.1			1040	1226	8003A	B						
8002	1040	1134	8003A	B		110008	W173.0			1231	1410	8004A	B						
8003	1231	1321	8004A	B		124725	E160.3			1414	1554	8005A	B						
8004	1414	1508	8005A	B		143441	E133.5			1559	1737	8007A	B						
8005	1559	1656	8007A	B		162158	E106.6			1738	1917	8007A	A						
8006	1745	1843	8007A	A		180914	E079.8			1926	2108	8009A	B						
8007	1932	2030	8009A	B		195630	E053.0			2215	2259	8009A	A						
8008						214347	E026.2												
8009						233193	W000.7												

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
31 JULY 1974

THIR										ESMR									
-----										-----									
DATA	11.5 + 6.7		INT	H	THIR	ASC. AND				DATA			INT	H					
ORBIT	ON	OFF	ORBIT	D	GRID	DESC.	NODE	TIME	LONG	ORBIT	ON	OFF	ORBIT	D	TIME	LONG	DESC.	NODE	
	HRMN	HRMN	STDN	R	CORR	HRMNSS	DEG				HRMN	HRMN	STDN	R					
				S	LALO									S					
DAYTIME THIR										ASC. NODE									
8010	0024	0054	8012R	A		002443	E165.9			8011	0025	0223	8012R	A					
8011	0152	0222	8012R	A		021200	E139.1			8012	0223	0422	8012R	B					
8011	0224	0241	8012R	B						8013	0442	0624	8013R	B					
8012	0339	0421	8012R	B		035916	E112.3			8014	0630	0804	8014A	B					
8013	0527	0615	8013R	B		054633	E085.5			8015	0809	0950	8015A	B					
8014	0714	0802	8014A	B		073349	E058.6			8016	0954	1135	8016A	B					
8015	0901	0948	8015A	B		092105	E031.8			8017	1141	1325	8017A	B					
8016	1048	1134	8016A	B		110822	E005.0			8018	1330	1510	8018A	B					
8017	1236	1324	8017A	B		125538	W021.8			8019	1515	1653	8020A	B					
8018	1423	1508	8018A	B		144255	W048.6			8020	1654	1833	8020A	A					
8019	1610	1652	8020A	B		163011	W075.4			8021	1843	2020	8021A	B					
8019	1654	1659	8020A	A						8022	2024	2211	8022A	B					
8020	1757	1831	8020A	A		181728	W102.3			8023	2216	2356	8023A	B					
8021	1945	2017	8021A	B		200444	W129.1												
8021	2024	2034	8022A	B															
8022	2132	2209	8022A	B		215201	W155.9												
8022	2216	2221	8023A	B	10N														
8023	2319	2355	8023A	B	10N	233917	E177.3												
8023	2357	0008	8026R	A															
NIGHTTIME THIR										DESC. NODE									
8010	0054	0152	8012R	A		011820	W027.5			8011	0241	0339	8012R	B					
8011	0241	0339	8012R	B		030536	W054.3			8012	0442	0527	8013R	B					
8012	0442	0527	8013R	B		045253	W081.1			8013	0615	0623	8013R	B					
8013	0615	0623	8013R	B		064009	W107.9			8013	0629	0714	8014A	B					
8013	0629	0714	8014A	B						8014	0808	0901	8015A	B					
8014	0808	0901	8015A	B		082726	W134.7			8015	0954	1048	8016A	B					
8015	0954	1048	8016A	B		101442	W161.6			8016	1141	1236	8017A	B					
8016	1141	1236	8017A	B		120158	E171.6			8017	1331	1423	8018A	B					
8017	1331	1423	8018A	B		134915	E144.8			8018	1515	1610	8020A	B					
8018	1515	1610	8020A	B		153631	E118.0			8019	1659	1757	8020A	A					
8019	1659	1757	8020A	A		172348	E091.2			8020	1846	1945	8021A	B					
8020	1846	1945	8021A	B		191104	E064.3			8021	2034	2132	8022A	B					
8021	2034	2132	8022A	B		205821	E037.5			8022	2221	2319	8023A	B	10S				
8022	2221	2319	8023A	B	10S	224537	E010.7			8023	0008	0105	8026R	A					
8023	0008	0105	8026R	A		003253	W016.1												

NEMS - SCR - ITPR									

0025	0223	8012R	A						
0223	0422	8012R	B						
0442	0623	8013R	B						
0629	0804	8014A	B						
0808	0949	8015A	B						
0954	1136	8016A	B						
1140	1326	8017A	B						
1331	1510	8018A	B						
1515	1653	8020A	B						
1654	1833	8020A	A						
1842	2019	8021A	B						
2024	2211	8022A	B						
2216	2356	8023A	B						

169

SECTION 3

ELECTRICALLY SCANNING MICROWAVE RADIOMETER DISPLAYS

One ESMR display per day has been selected for presentation in this section. All ESMR coverage times are listed in the Data Availability On-Off Times (Table 2-2). Each display contains the following items:

Nimbus 5 ESMR

This identifies the satellite (Nimbus 5) and the experiment (ESMR).

Date

This identifies the Greenwich day, month, and year the data is recorded.

Data Orbit

This data orbit number identifies only the last data orbit on each display. Usually parts of two data orbits are on the same display, since all data acquired during each satellite interrogation is presented on one 4 × 5-inch negative. In general, nighttime data is on the left and daytime data is on the right.

Program

No Program number is identified on these displays. Its intended use was to identify the appropriate table which would list the temperature interval for each gray level in the gray scale. The temperature programs used since launch are listed in Table 3-1.

Gray Scale

A single 11-step gray scale serves to define ESMR brightness temperatures in all three swaths, by the assignment of a different brightness temperature range to each step for each swath. Table 3-1 defines the gray scale table used on all images since launch.

Image Swaths (1, 2, 3)

A set of three swaths, labeled 1, 2, and 3, separates the same recorded data into three temperature intervals (defined in Table 3-1). The right set of three swaths is a continuation of the left set and is offset because of the limitations of the 4 × 5-inch film format. The three swath presentation is used because it shortens the temperature ranges spanned by

Table 3-1

**ESMR Gray Scale Steps Versus Brightness Temperature
for Each of the Three ESMR Swaths in
the ESMR Pictorial Displays
(Temperatures in °K)**

		Table 1 Orbit 104 through 502			Table 2 Orbit 503 through 8023		
Swath		1	2	3	1	2	3
(black)	1	>200	>262	>280	>210	>266	>290
Gray Scale Number	2	190-200	256-262	277-280	202-210	258-266	286-290
	3	180-190	250-256	274-277	194-202	250-258	282-286
	4	170-180	240-250	271-274	186-194	242-250	278-282
	5	160-170	230-240	268-271	178-186	234-242	274-278
	6	150-160	220-230	265-268	170-178	226-234	270-274
	7	140-150	210-220	262-265	162-170	218-226	266-270
	8	130-140	200-210	259-262	154-162	210-218	262-266
	9	120-130	190-200	256-259	146-154	202-210	258-262
	10	110-120	180-190	253-256	138-146	194-202	254-258
(white)	11	<110	<180	<253	<138	<194	<254

each step of the gray scale, and, therefore, permits discrimination of various meteorological and terrestrial phenomena.

Significant in swath 1 are the areas of atmospheric moisture and rainfall over oceans. Swath 2 brightness temperature range discriminates between new and multi-year ice and, over oceans, shows only rainfall areas. The high brightness temperatures of swath 3 outline some land areas of high soil moisture content or snow cover, but oceans lose almost all their temperature contrasts. The swath 3 information was lost because of an instrument malfunction between orbit 1062 (28 February 1973) and orbit 2250 (27 May 1973), and for short intervals after orbit 3015 (23 July 1973).

Time Code Index

The Time Code Index, in hours and minutes (GMT), is adjacent to the gray scale. The top number in each set is for the left group of three

swaths; the bottom number in each set is for the right group of three swaths. Time bars are spaced at five-minute intervals. The same time bars are used for the left and right swaths. The top or bottom time code index determines the time for each time bar.

Grids

Two grids, labeled GRID L and GRID R, identify the geographic coordinates for the imagery of the left (L) and the right (R) sets of swaths, respectively. Latitude lines are spaced at 10-degree intervals. Longitude lines are spaced at 10-degree intervals to 60 degrees north and south of the equator, and at 20-degree intervals from 60 to 80 degrees north and south. The equator (EQ), North Pole (NP), and South Pole (SP) are labeled, as well as longitude values at the equator and at 30 and 60 degrees north and south of the equator.

Swath Display Program

The antenna gain function is different at each beam position. Thus, to present a uniform surface temperature as the same shade of gray across a scan track requires that the output voltage at each antenna position be adjusted for its beam position and output voltage value. If the corrections are not precise, vertical bands will be evident in the ESMR pictorial displays.

Three different sets of calibration constants (Display Format Programs) were used during the first two months of operation to eliminate these vertical bands. Two additional programs have been used since the instrument malfunction of 28 February 1973. Volume 1 of this catalog series illustrates the vertical banding produced by the first three programs, while the images in this section illustrate the banding produced by the last two. After 27 May 1973, Program 5 was used for image displays whenever the instrument was operating normally. Table 3-2 shows the Display Format Programs used during this catalog period.

The brightness temperature accuracy varied with each Display Format Program. With display Program 1, which uses prelaunch calibration constants, the digital brightness temperature values have about $\pm 20^\circ\text{K}$ accuracy. With a change to postlaunch calibration constants, Programs 2 and 4 produce about $\pm 2^\circ$ to 5°K temperature value accuracies. Of course, with Programs 2 and 4, the displayed temperature values are accurate only within the limits of the temperature range of each step of the gray scales as defined in Table 3-1. Display Programs 5 and 6, used after the instrument malfunction of 28 February 1973, are considered to produce $\pm 10^\circ\text{K}$ temperature accuracies on the image displays.

A description of the ESMR experiment may be found in The Nimbus 5 User's Guide, Section 4, and instructions for ordering the data, both pictorial and digital, are in Section 1. 7 of that Guide.

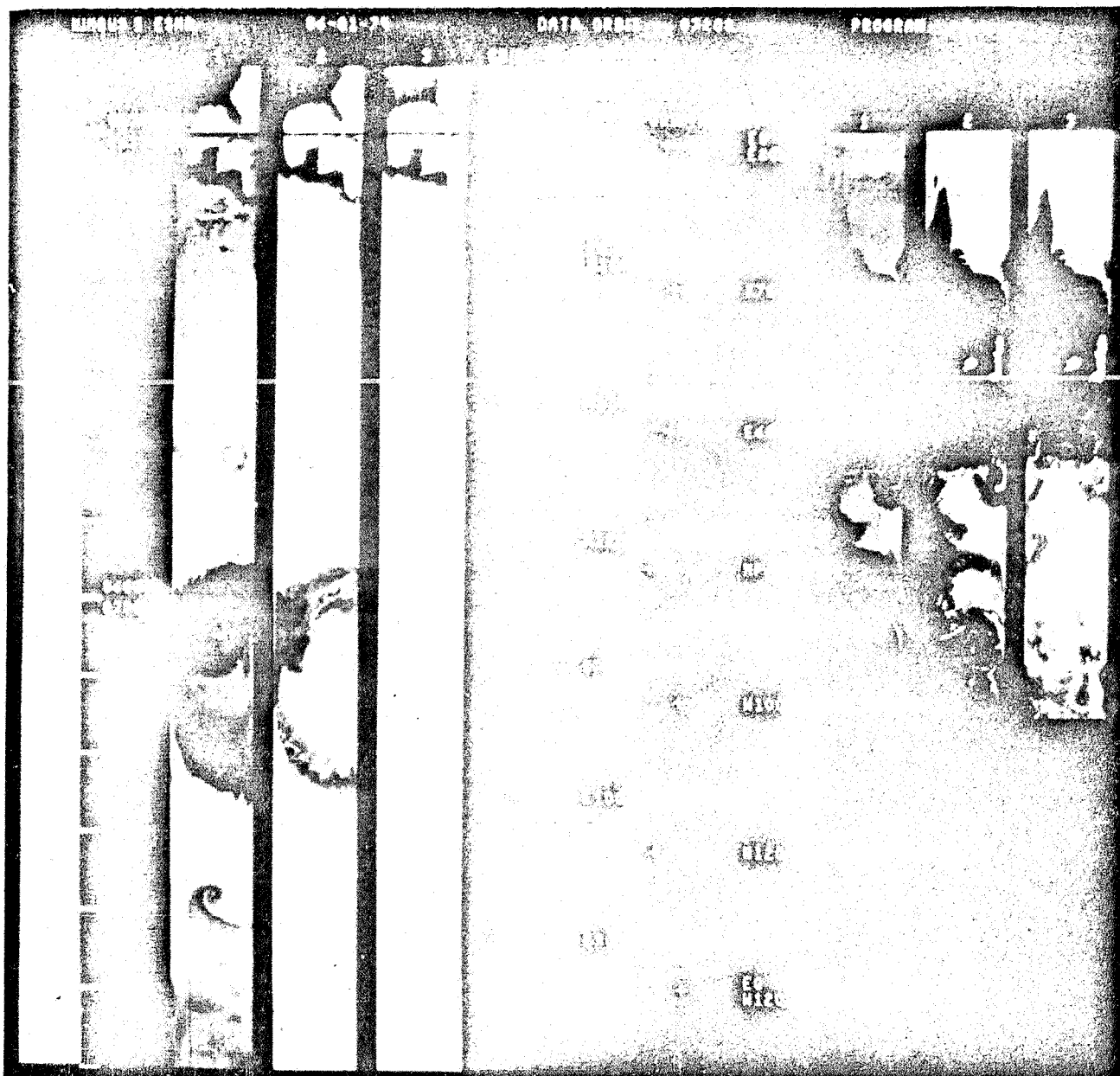
Table 3-2

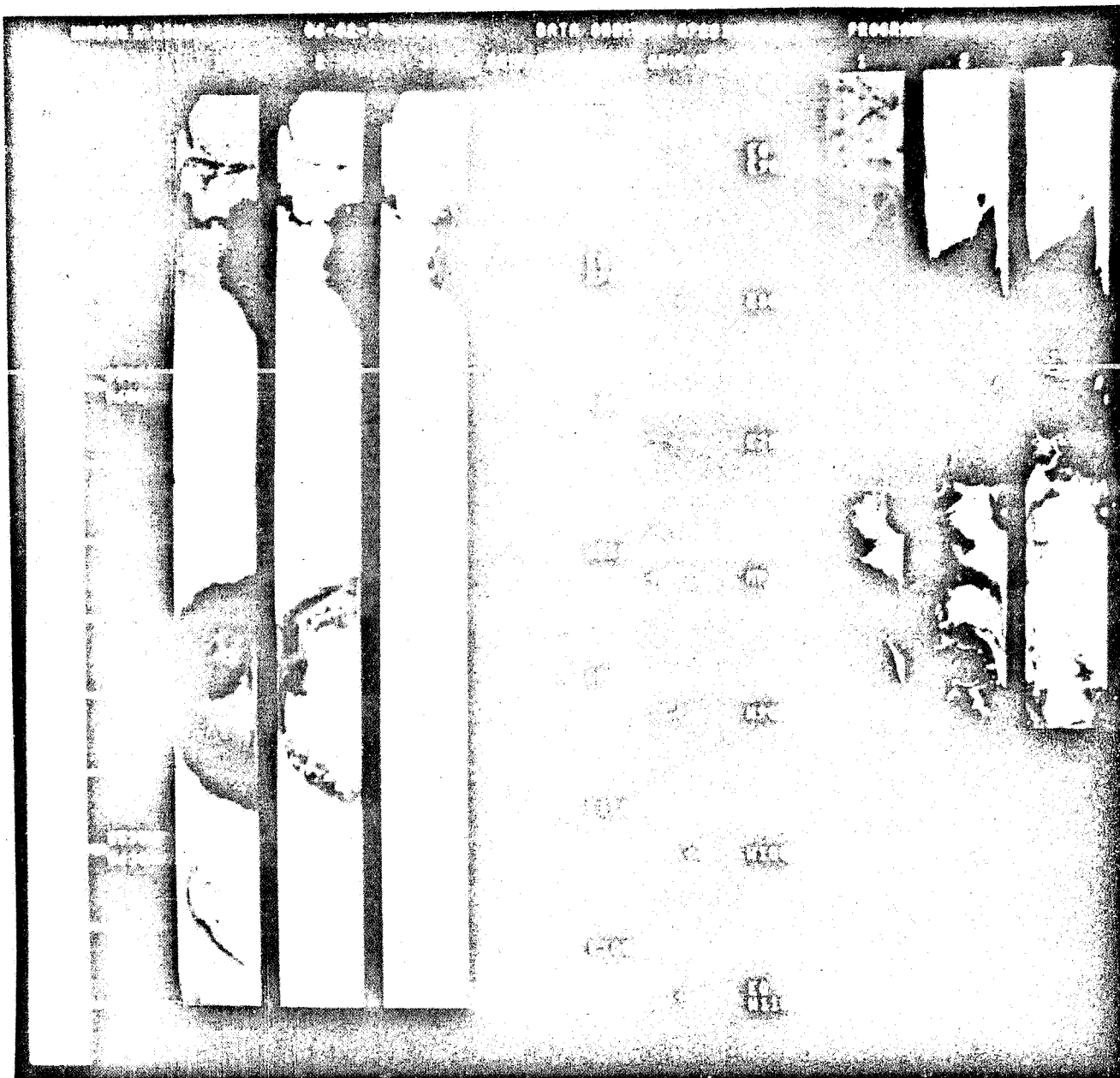
ESMR Display Format Programs for June and July 1974

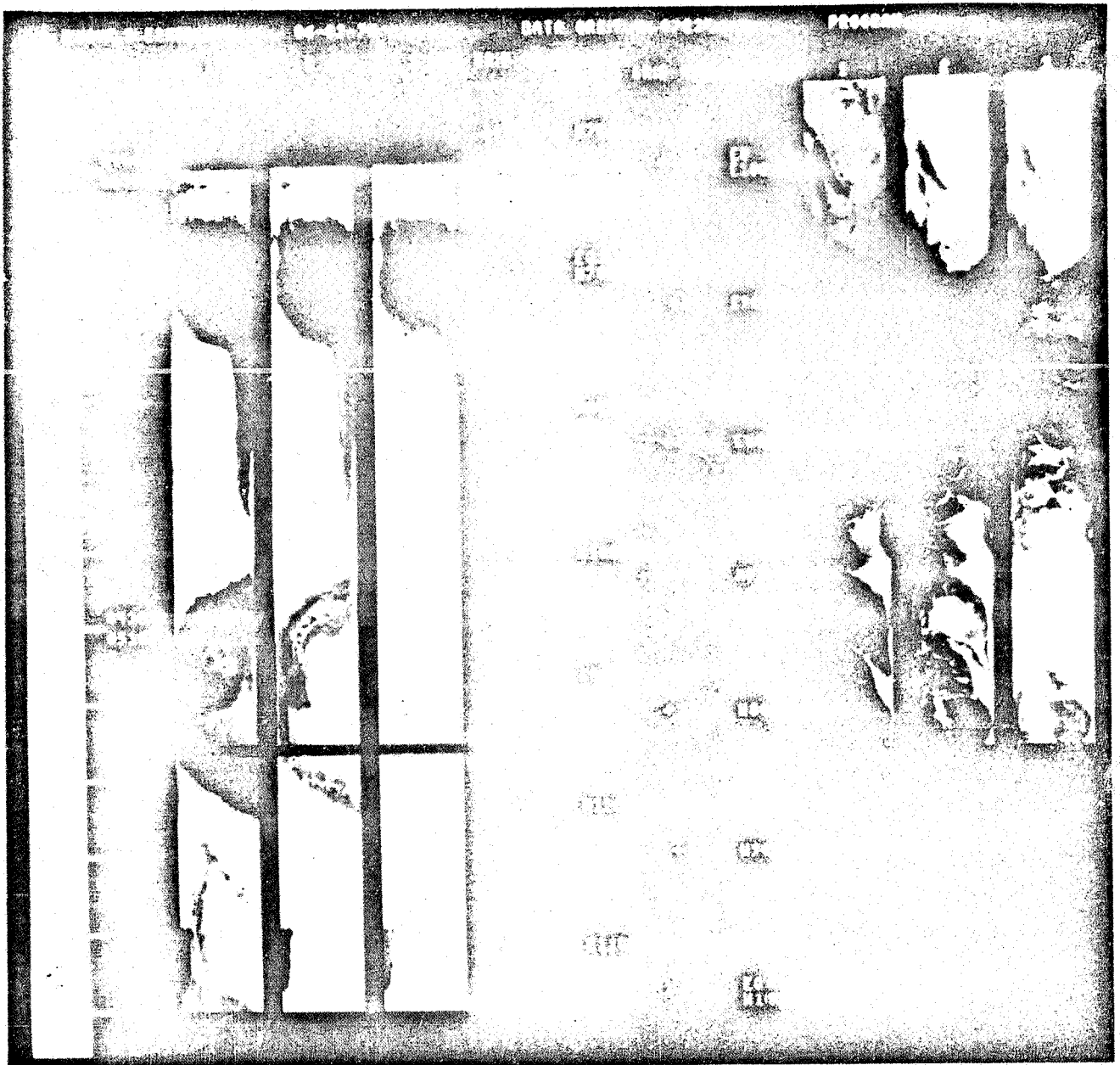
Orbits Processed with Display Format Program 5*		Orbits Processed with Display Format Program 6**	
Date	Orbits	Date	Orbits
1 June	7206	1 June	7206
1 June	7207	1 June	7207
1-3 June	7208-7233	3 June	7233
3-10 June	7234-7235	10-11 June	7336-7345
11 June	7346-7351	11 June	7353
11-13 June	7353-7366	13 June	7367-7369
13 June	7369-7375	13 June	7375
13-15 June	7375-7401	15 June	7401
15-16 June	7401-7417	16-17 June	7417-7431
17-19 June	7432-7455	19 June	7456
19-23 June	7457-7502	23 June	7503-7504
23 June - 9 July	7504-7717	9-10 July	7717-7735
10-11 July	7736-7748	11 July	7749-7751
11-13 July	7752-7778	13-14 July	7779-7784
14-16 July	7784-7817	16 July	7817
16 July	7817-7821	17-18 July	7823-7837
18 July	7838	18 July	7838-7841
18-19 July	7841-7852	19-20 July	7853-7863
20 July	7865-7872	20 July	7872-7874
20-22 July	7875-7891	22-23 July	7891-7914
23-30 July	7914-8001	30 July	8002-8003
30-31 July	8003-8015	31 July	8015-8017
31 July	8017	31 July	8018-8023

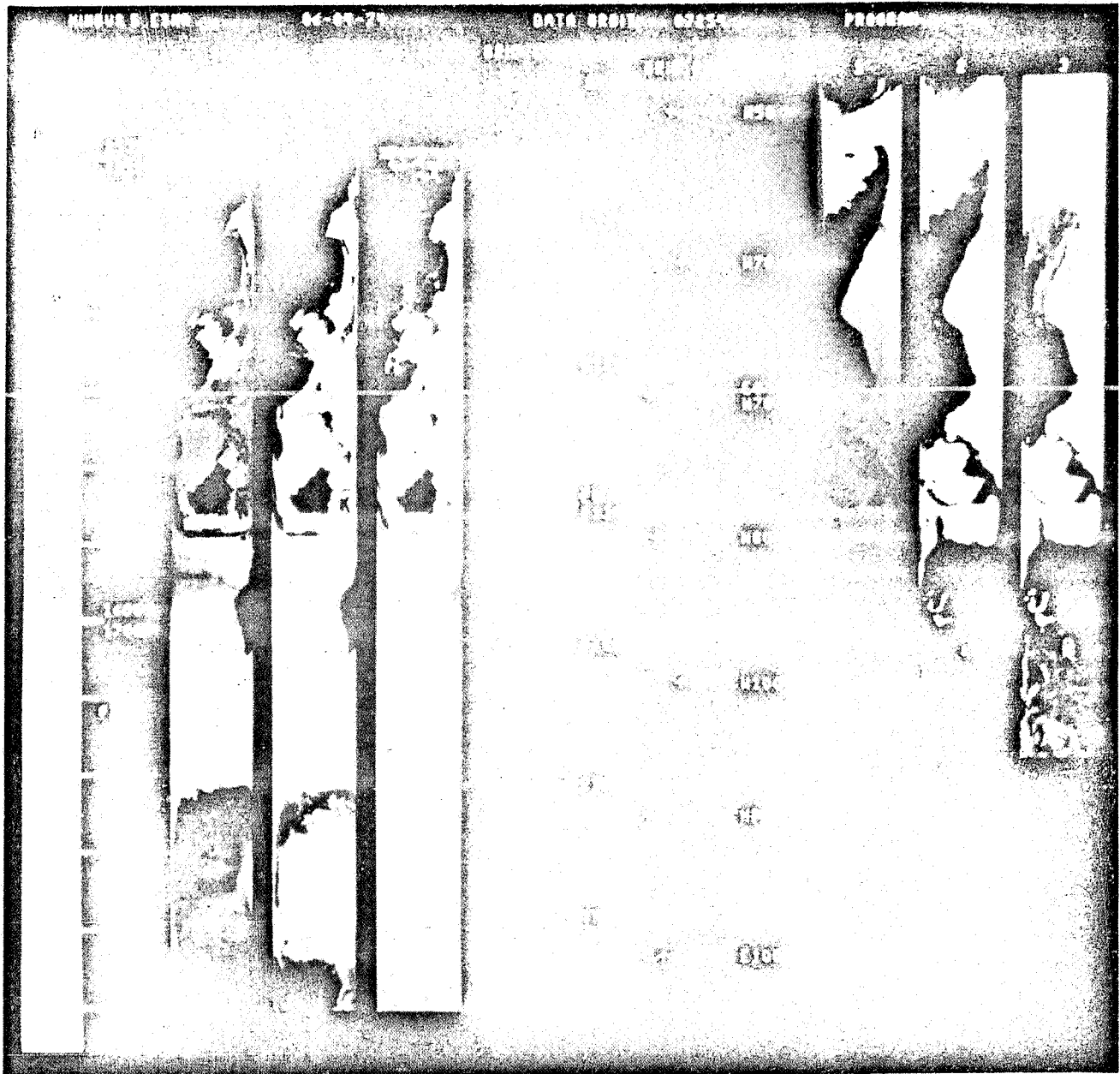
*Program 5 is used whenever the instrument is operating normally (data in all three swaths).

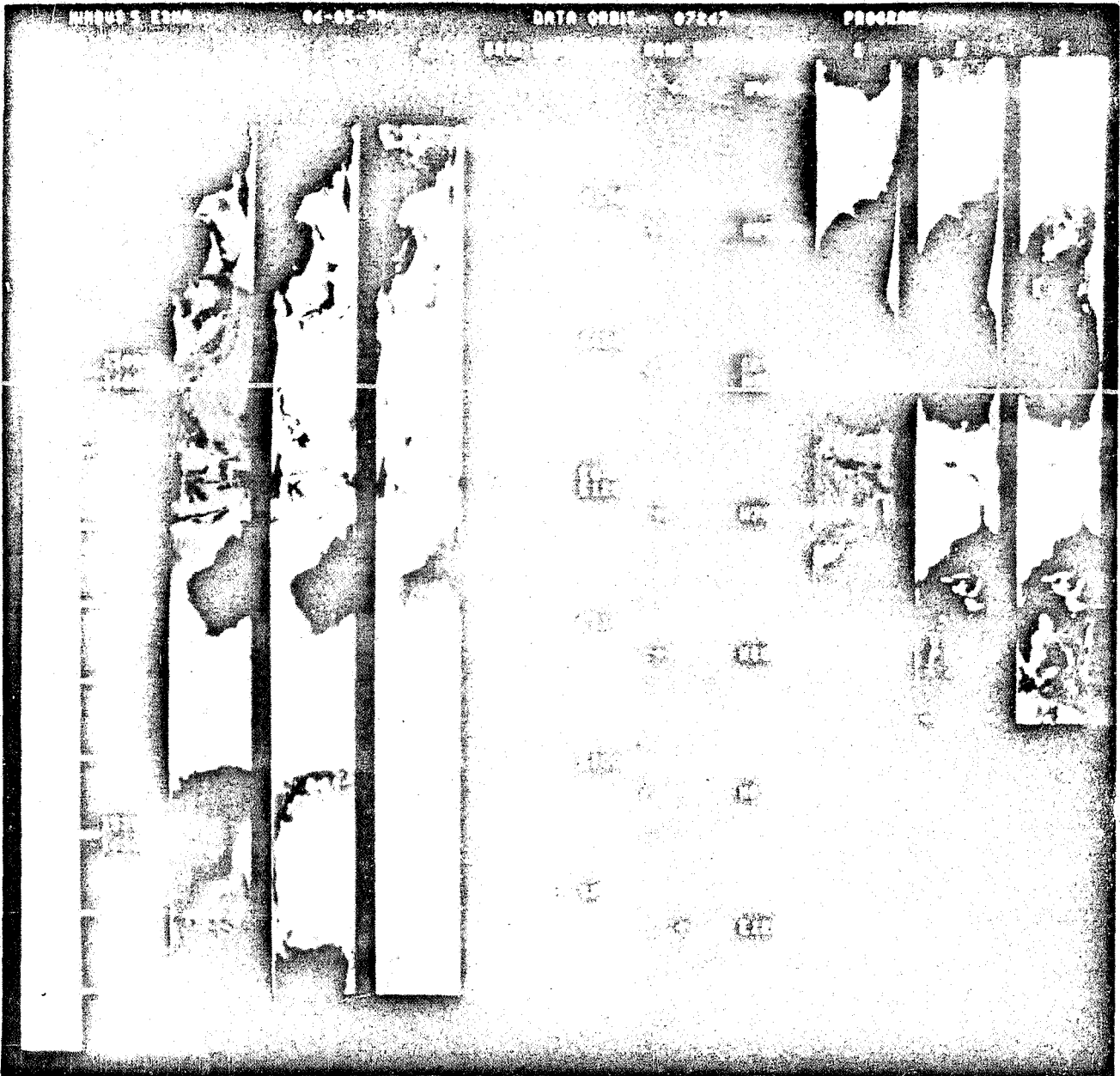
**Program 6 is used whenever the instrument is operating in the reduced response mode (data only in swaths one and two).
All orbits were processed with gray Scale Brightness Temperature Table 2 values (See Table 3-1).
An orbit listed under both processing programs means the ESMR operated in both modes during that orbit.

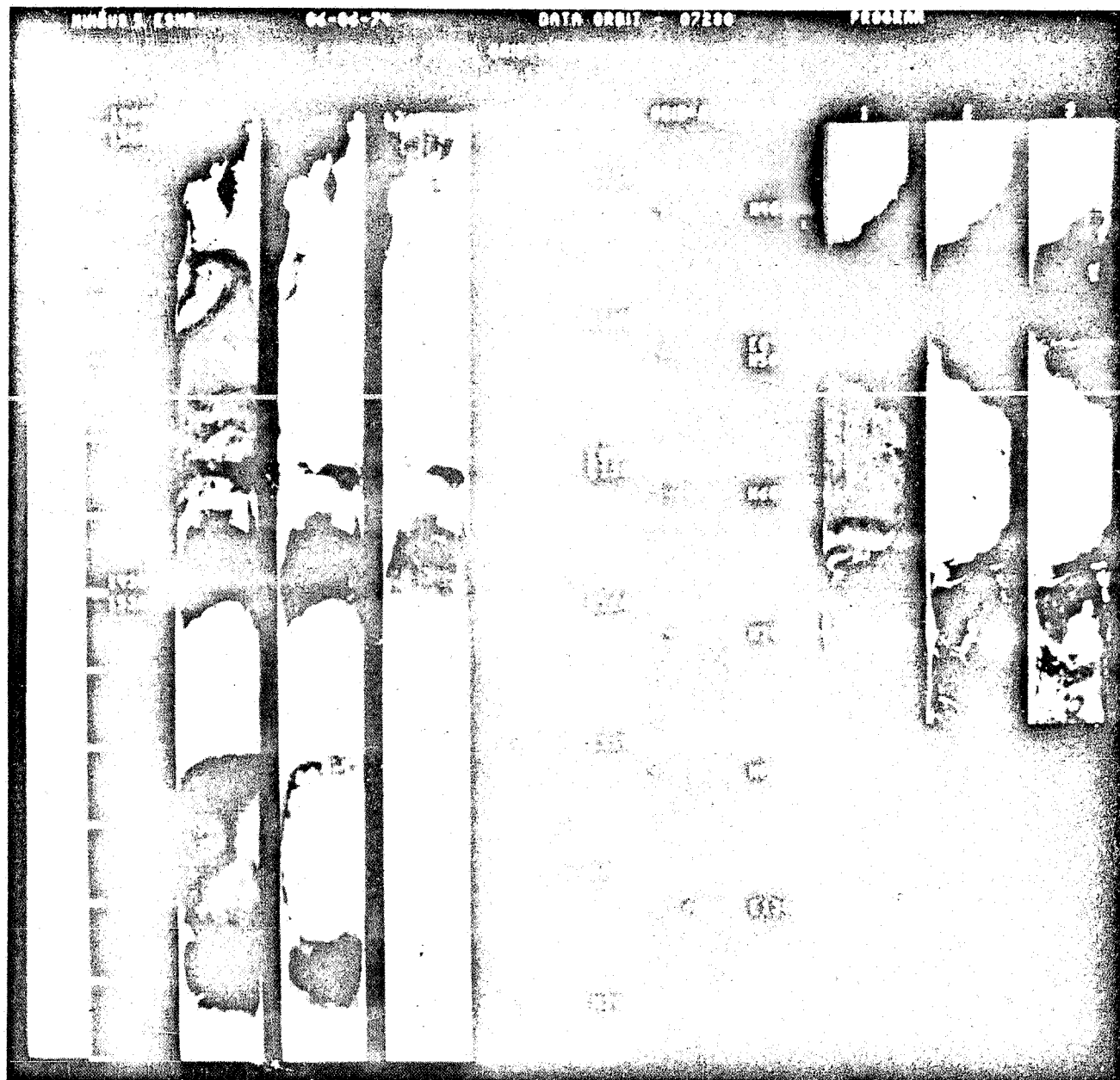


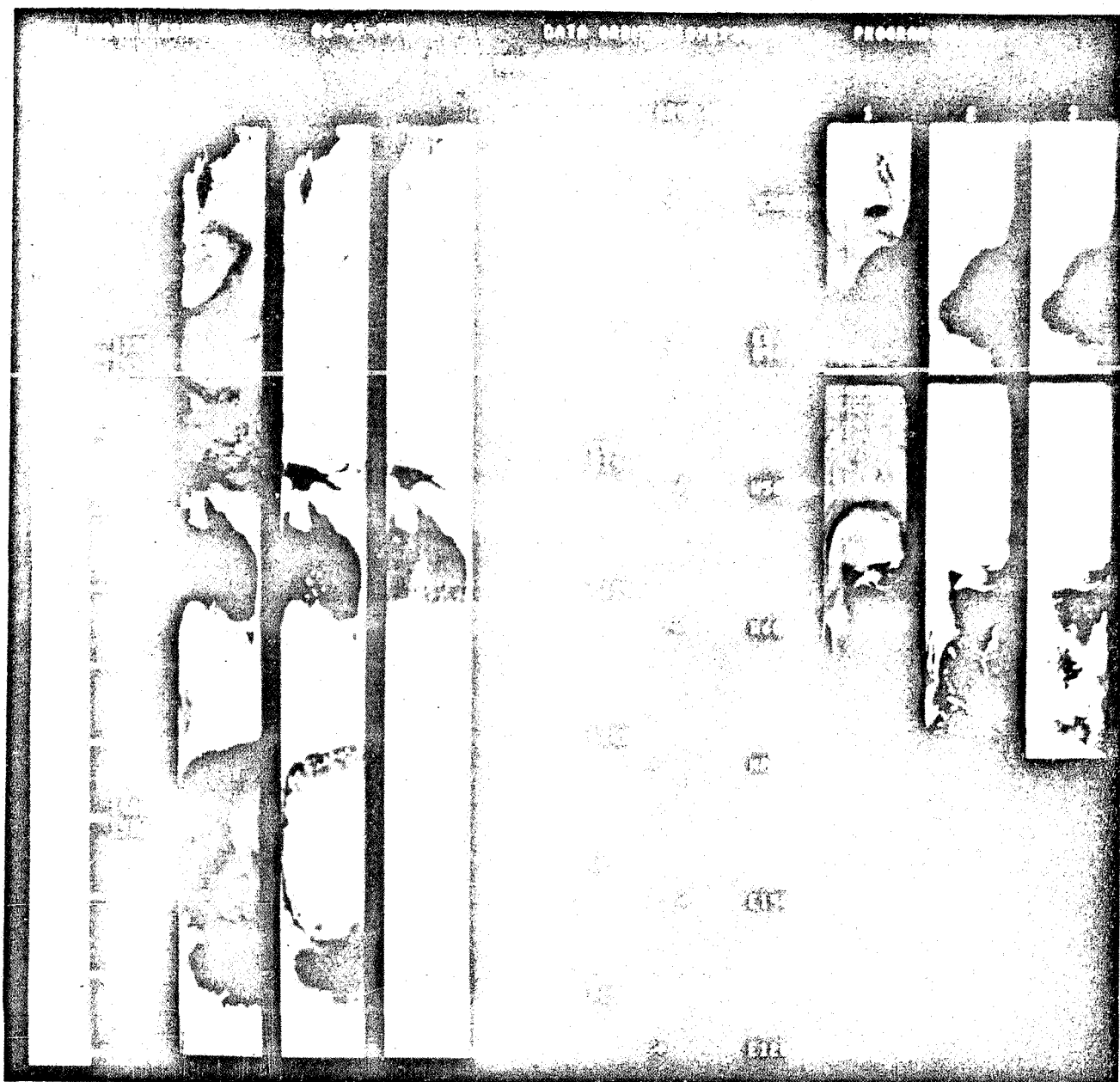


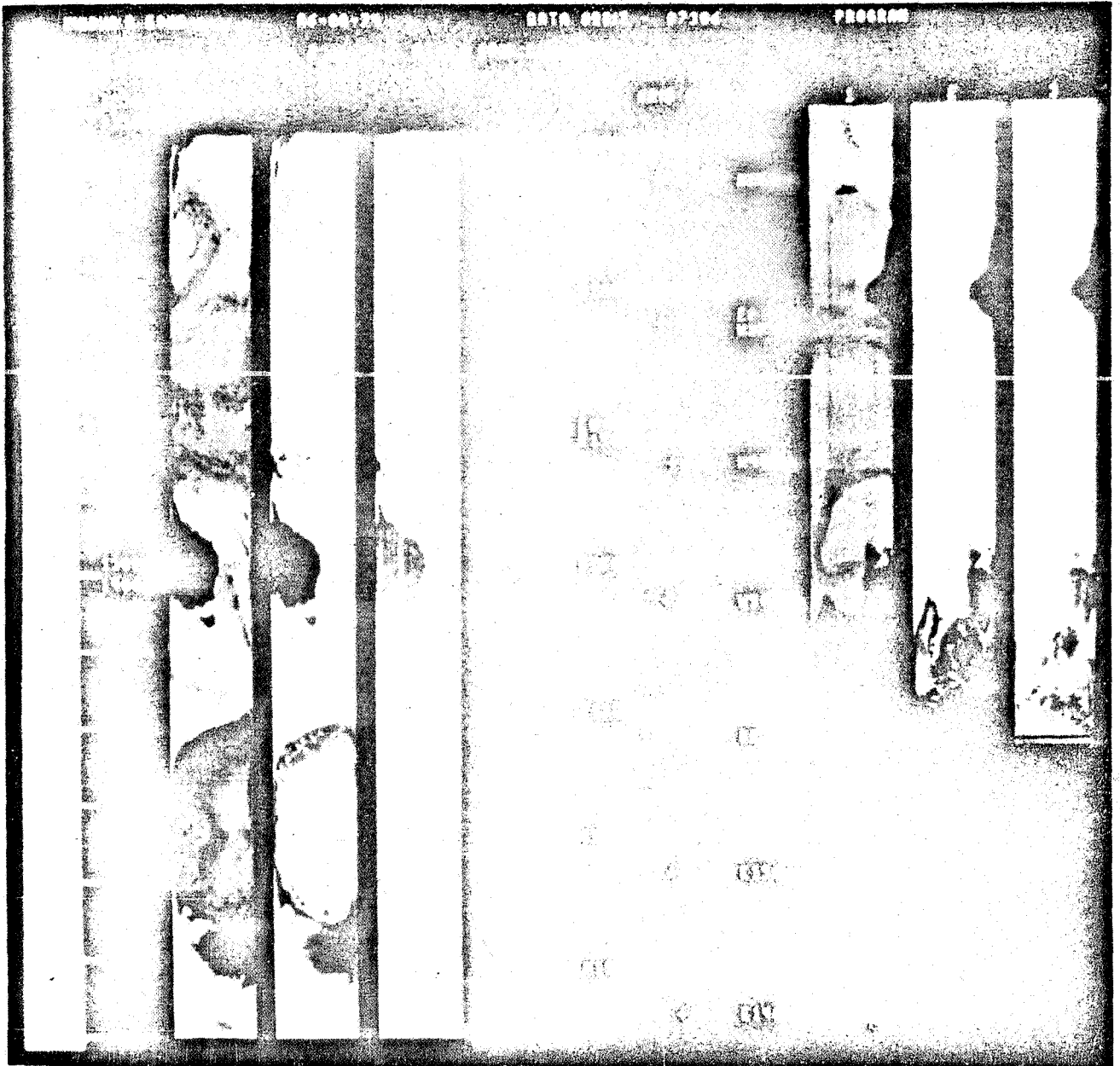


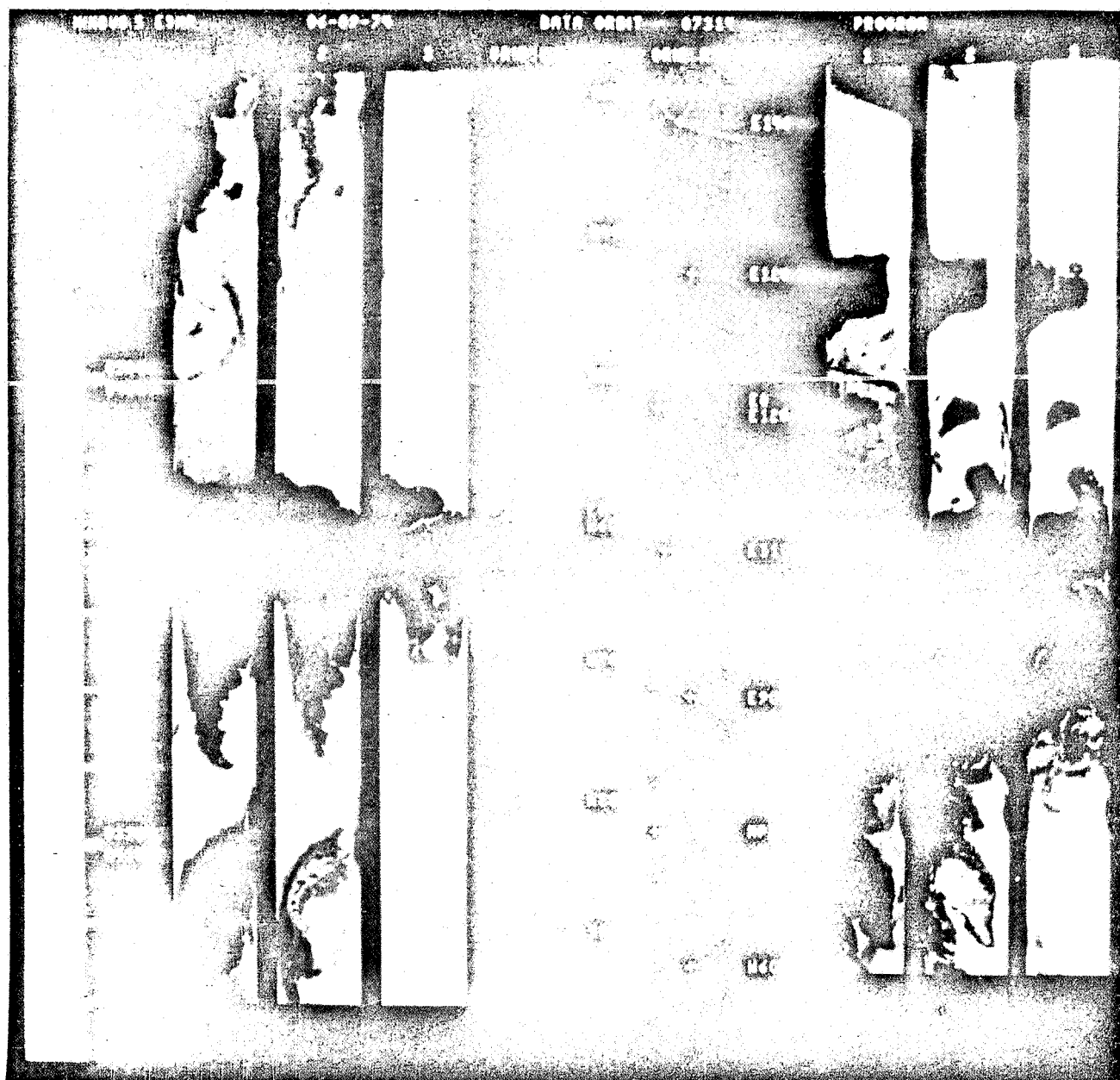




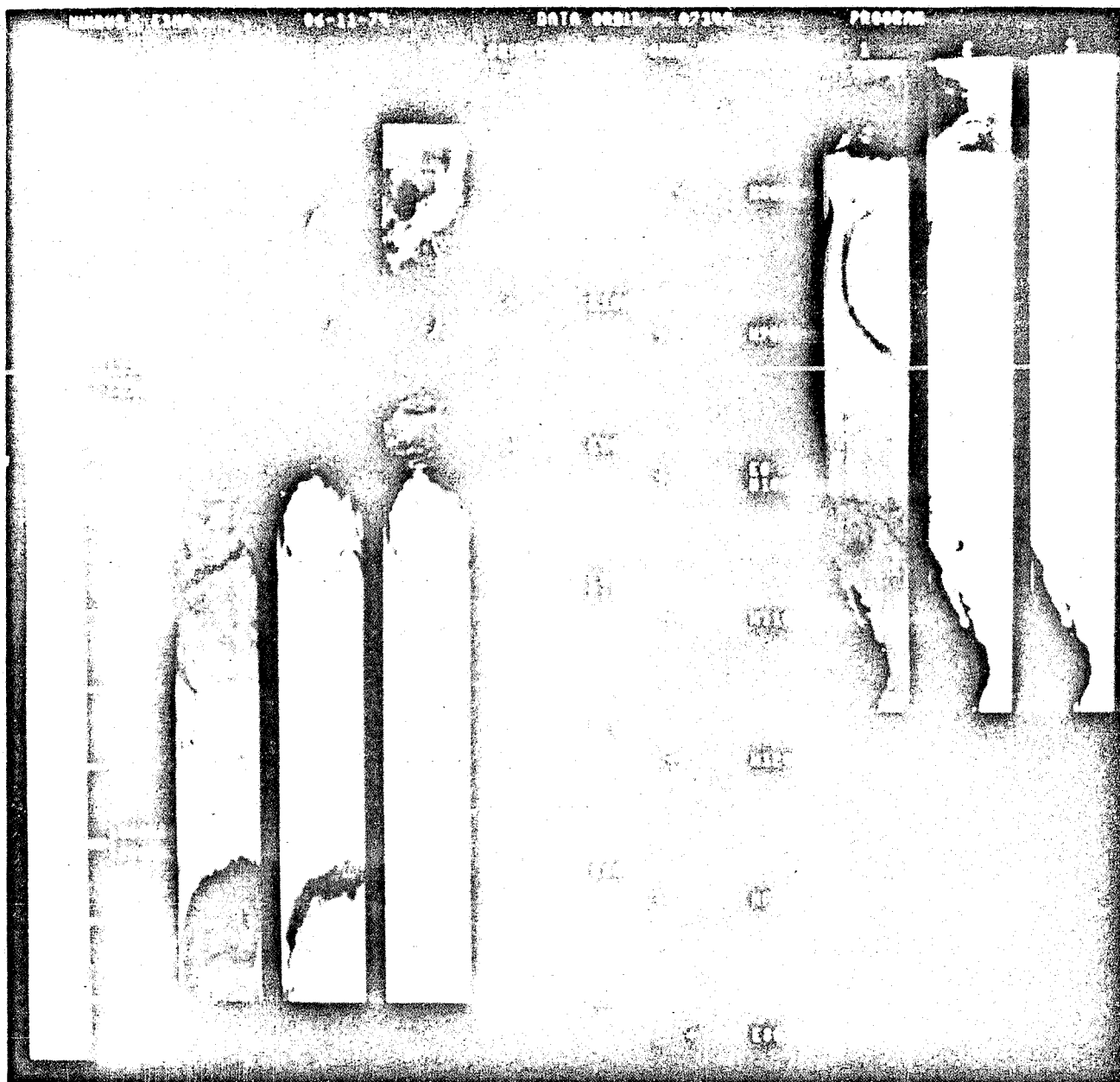


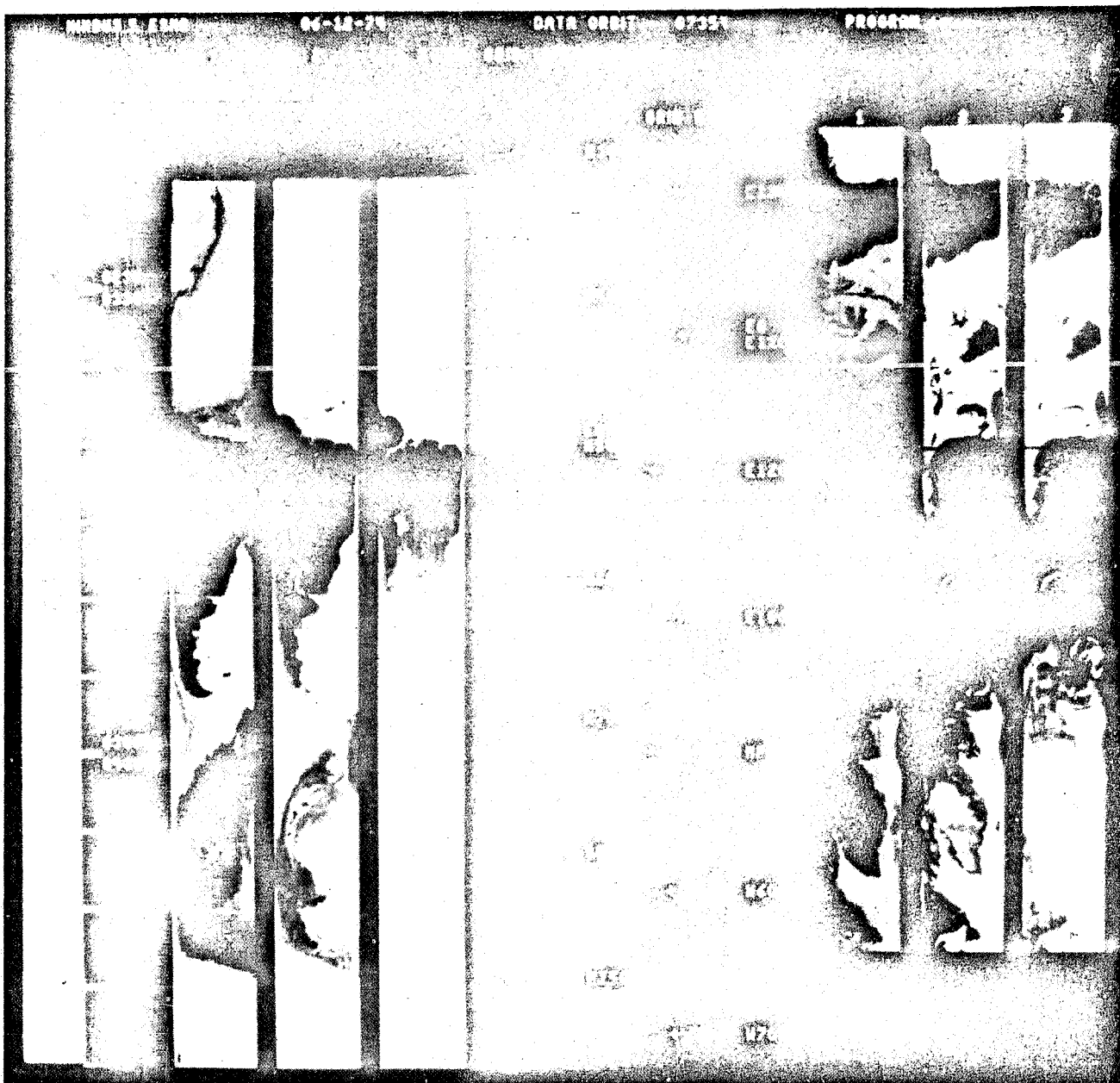


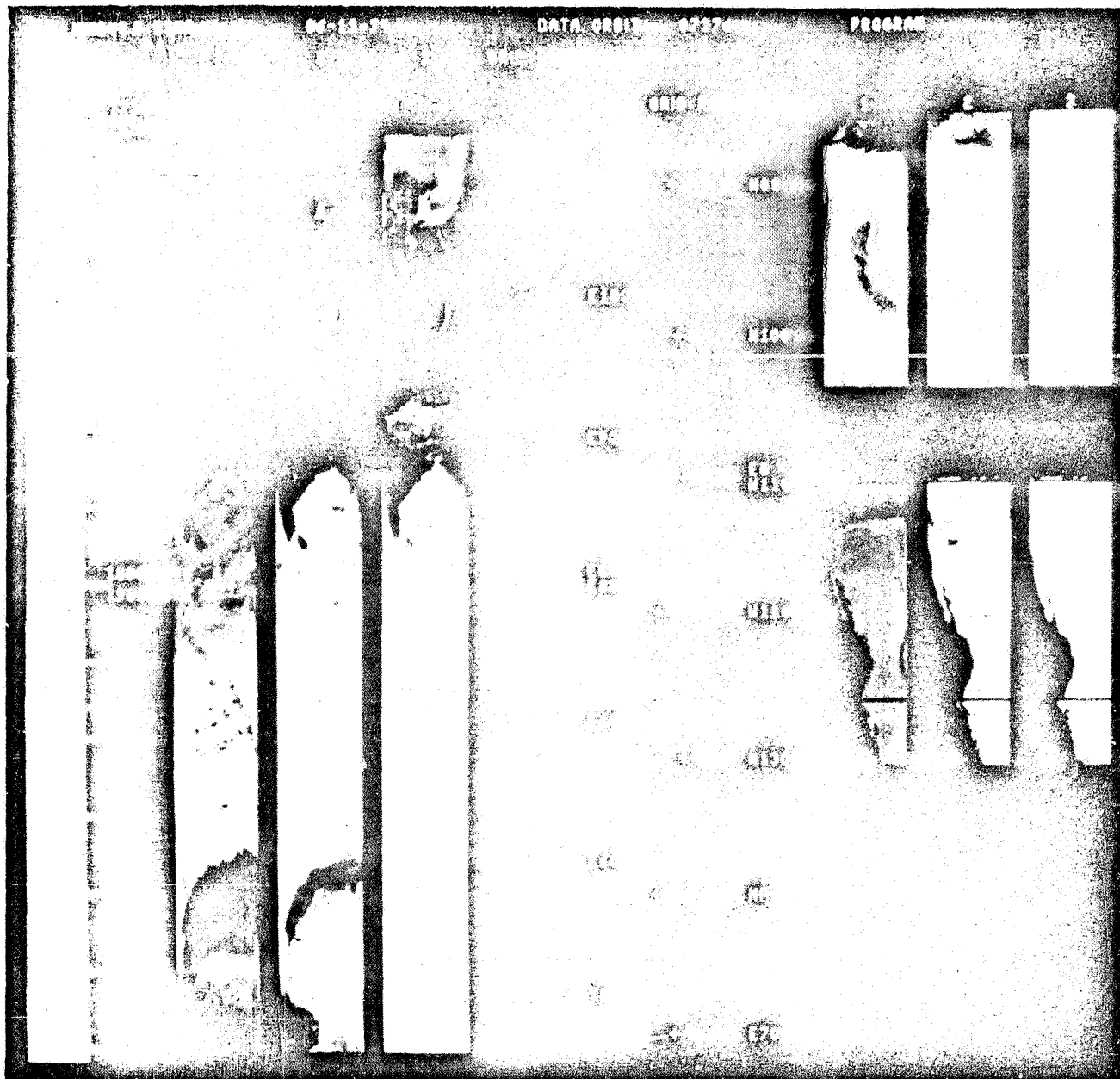


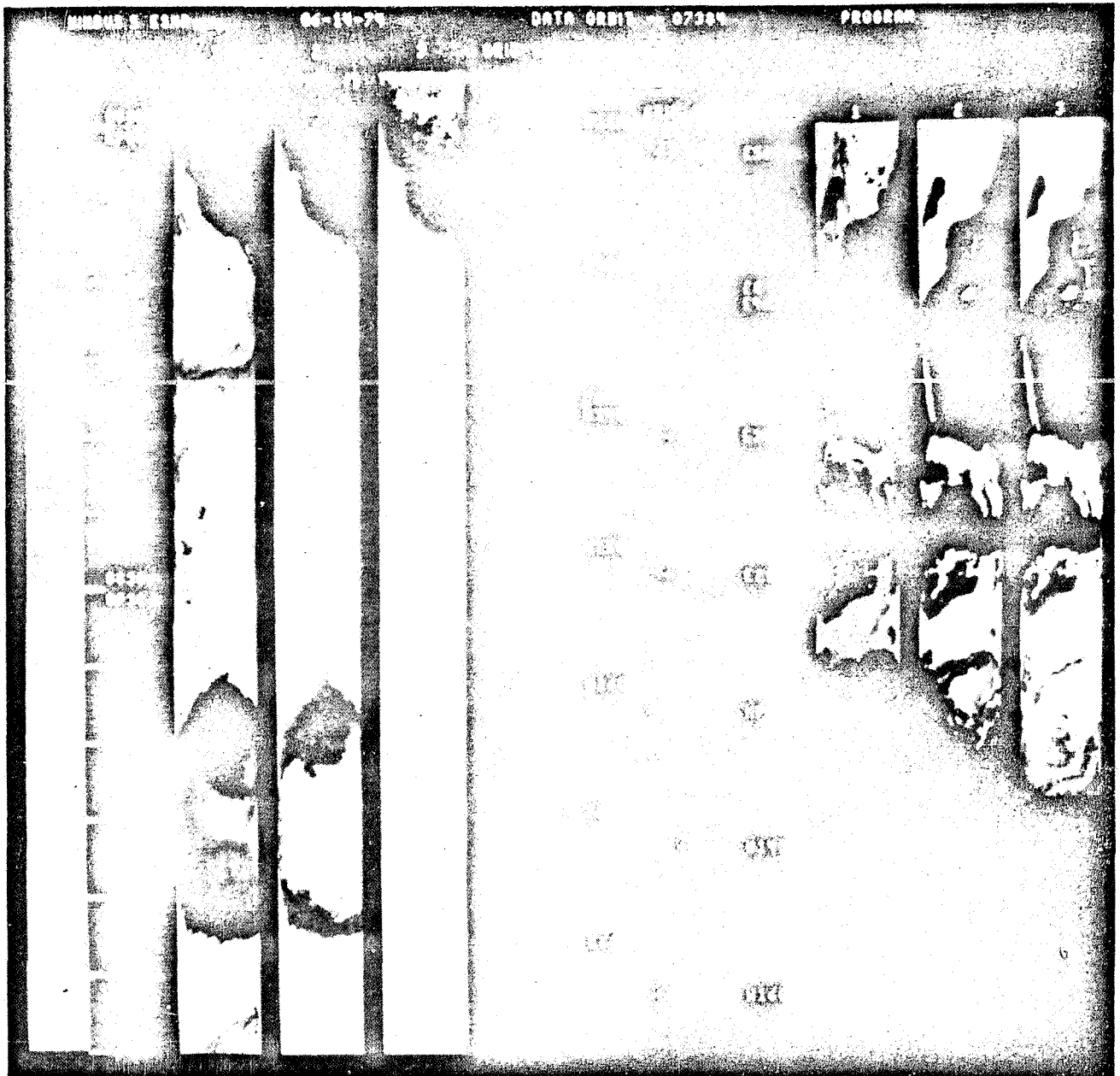


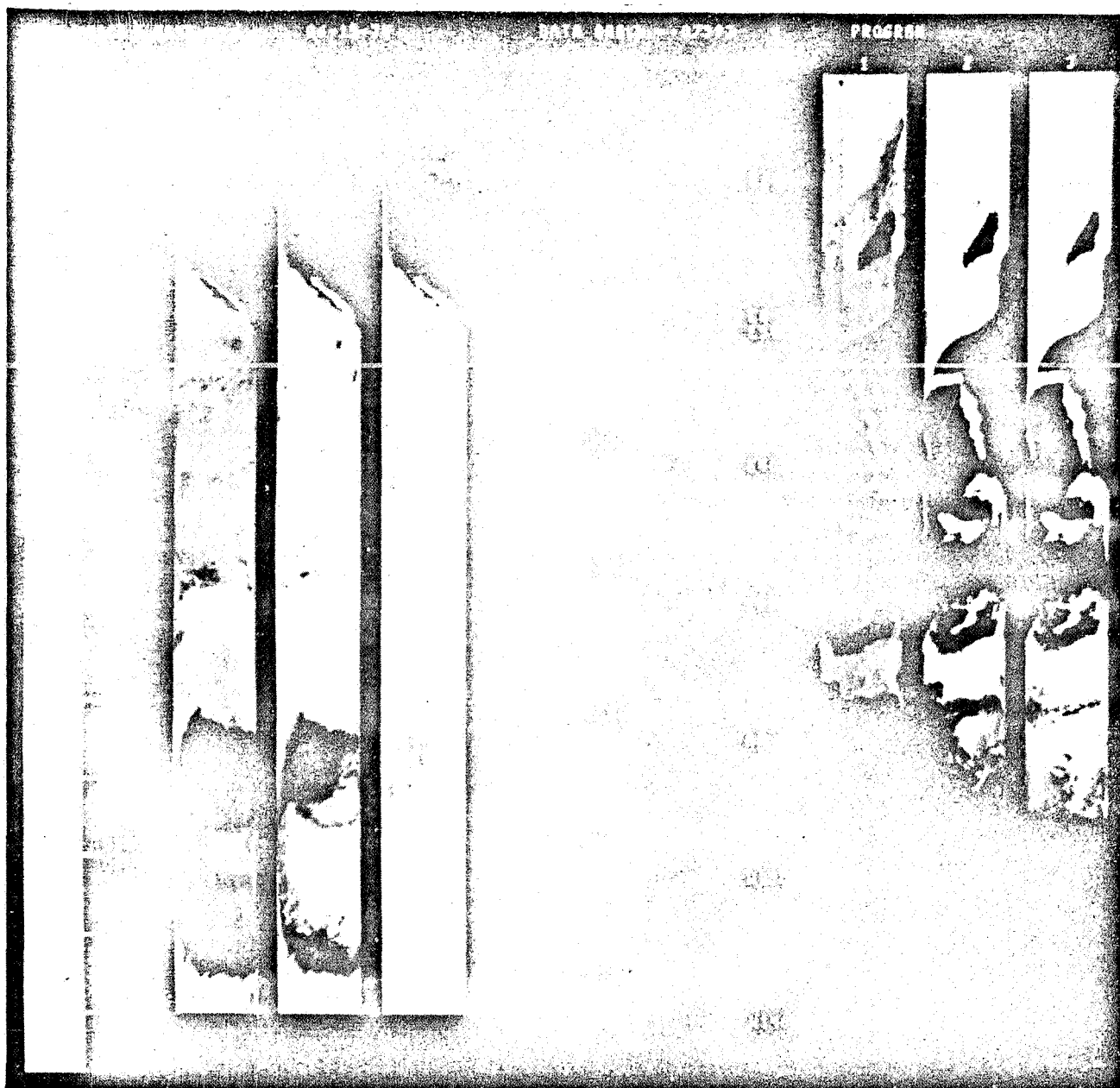


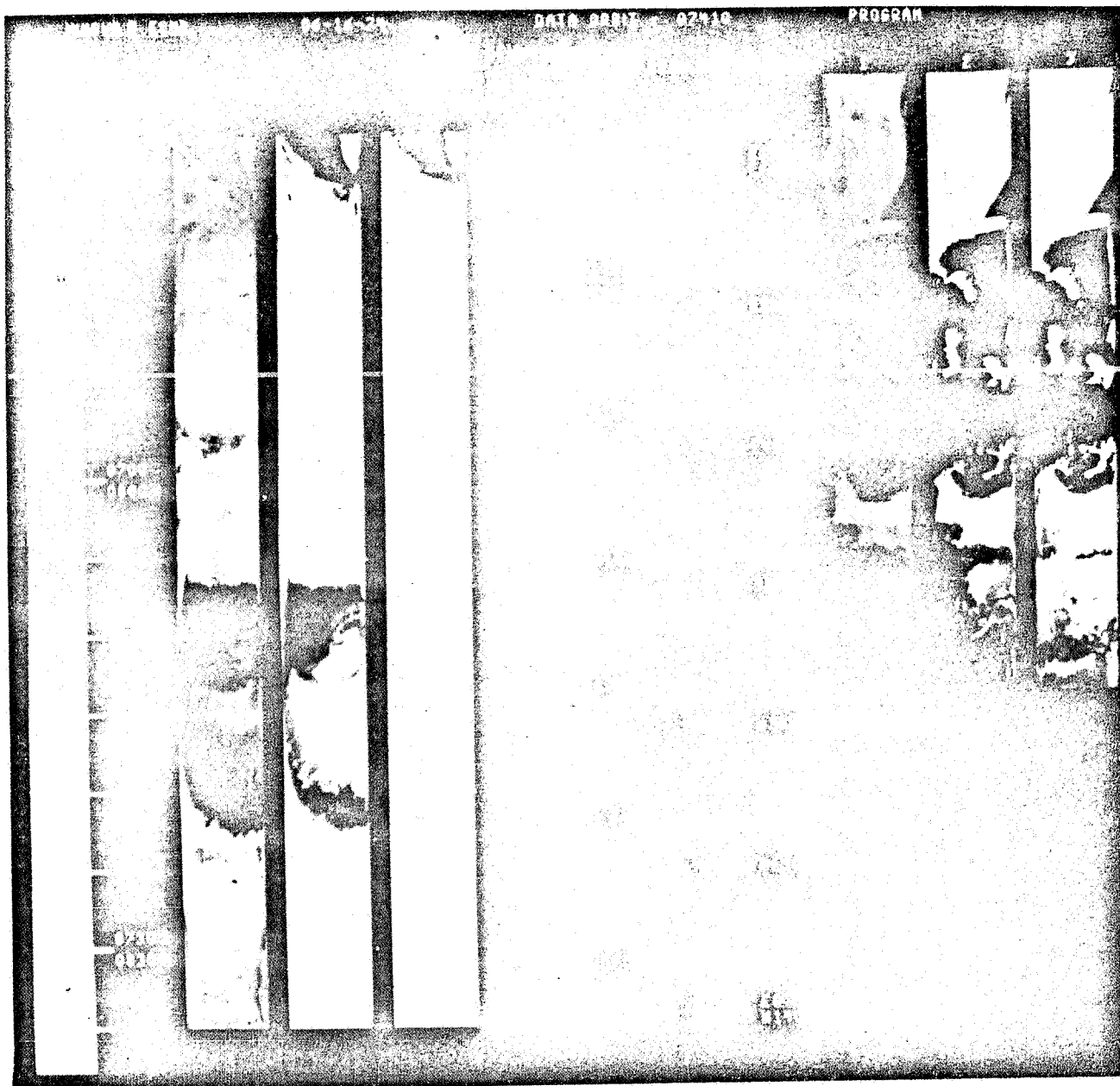


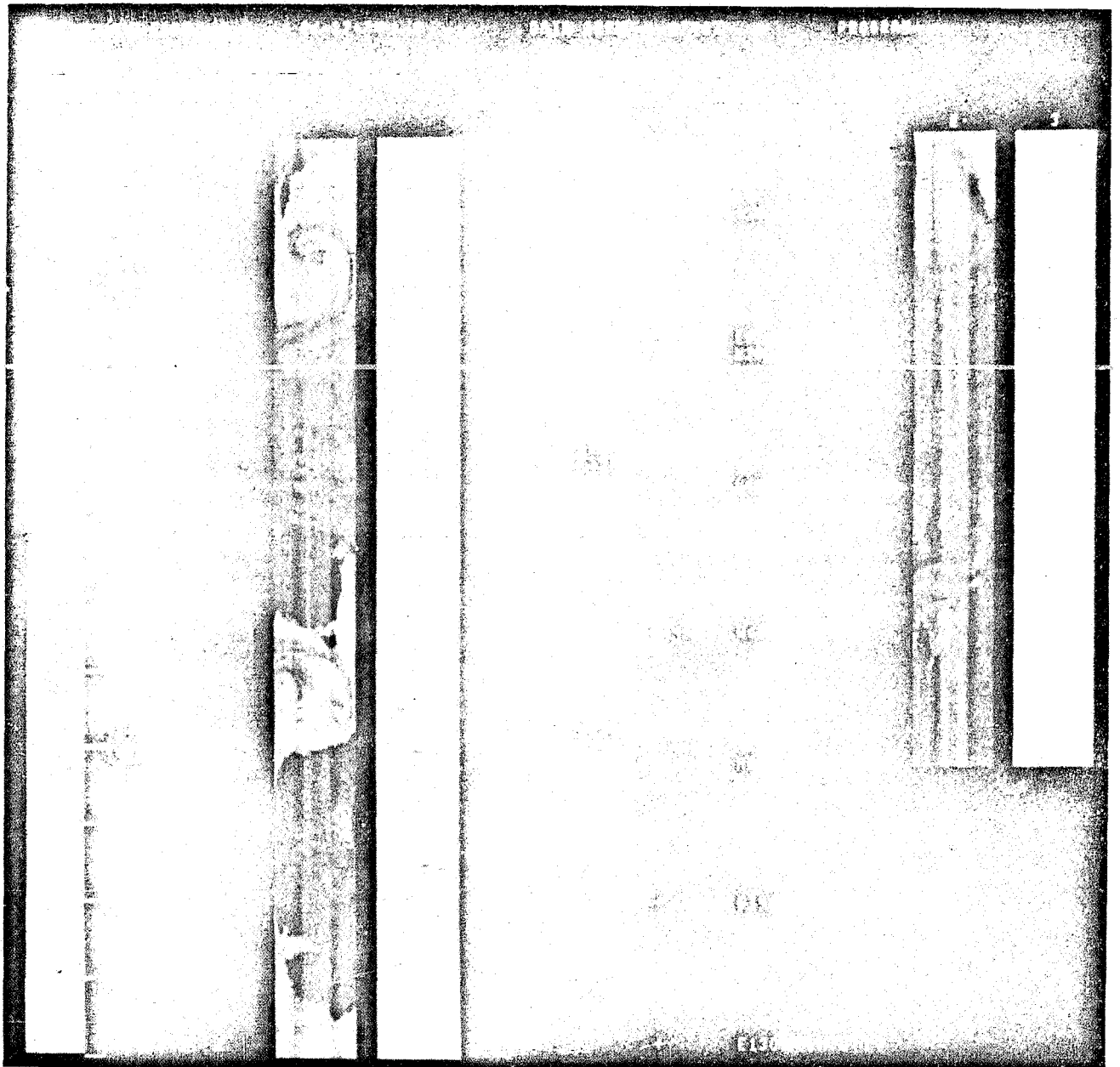


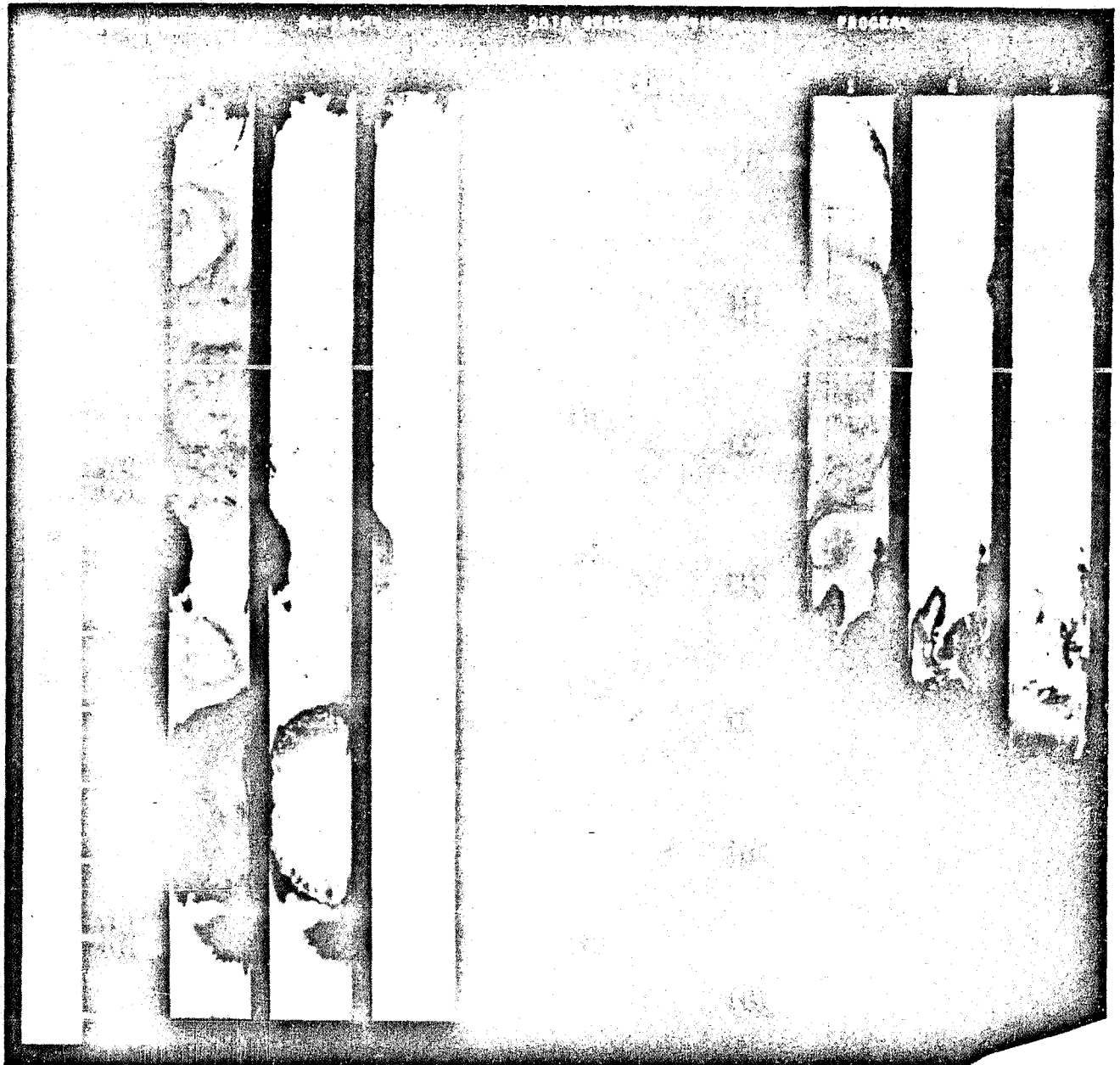


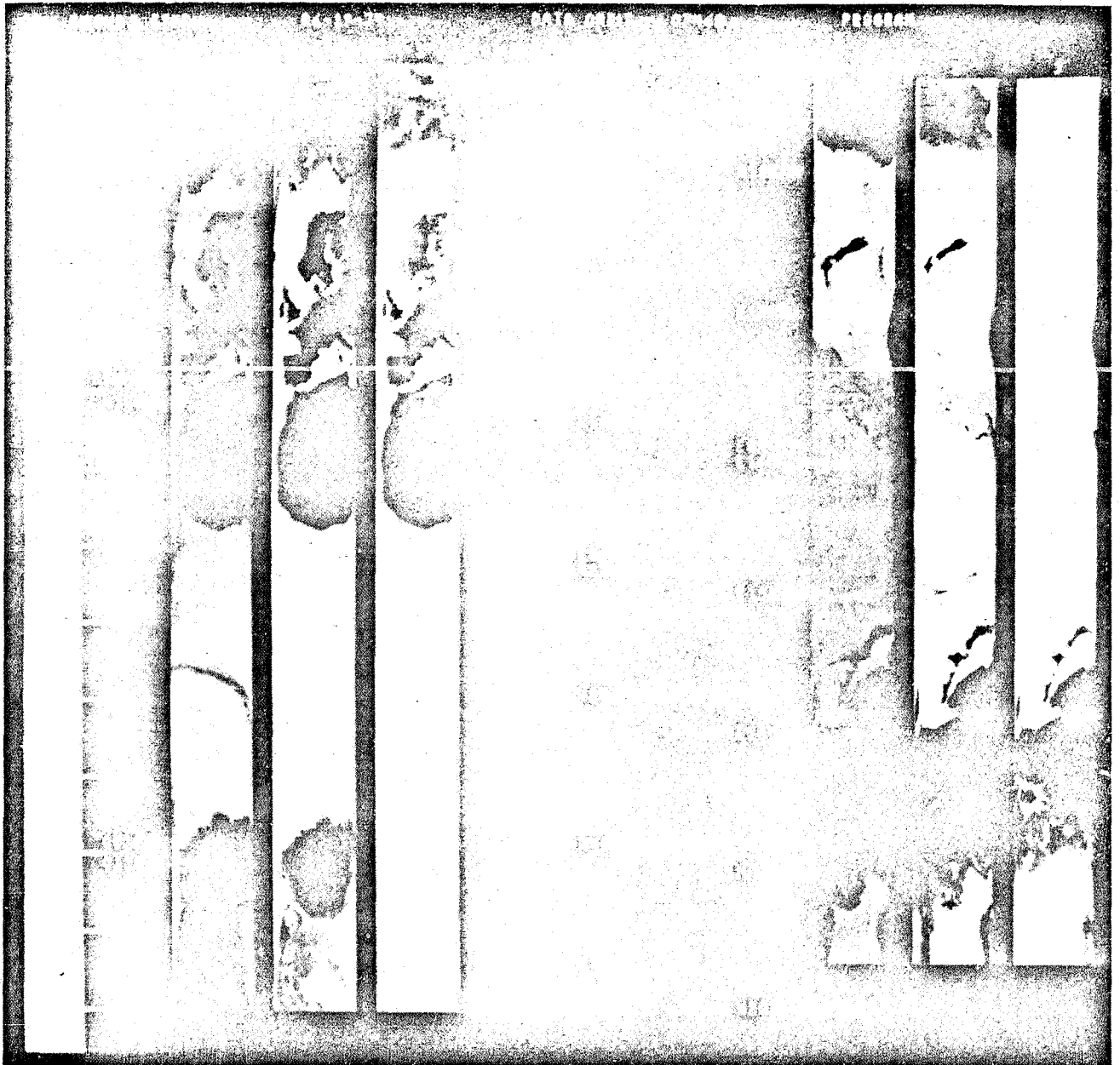


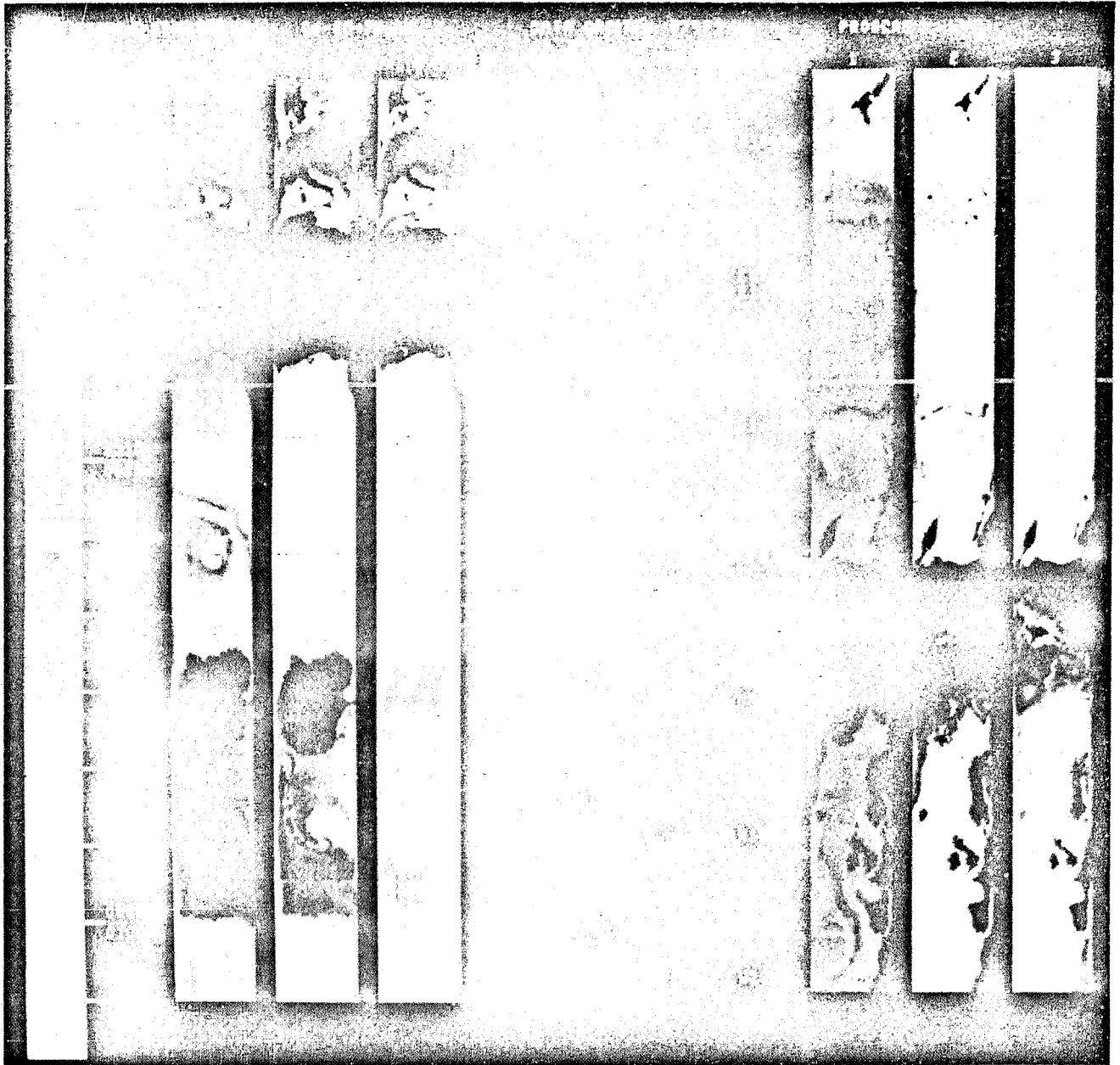


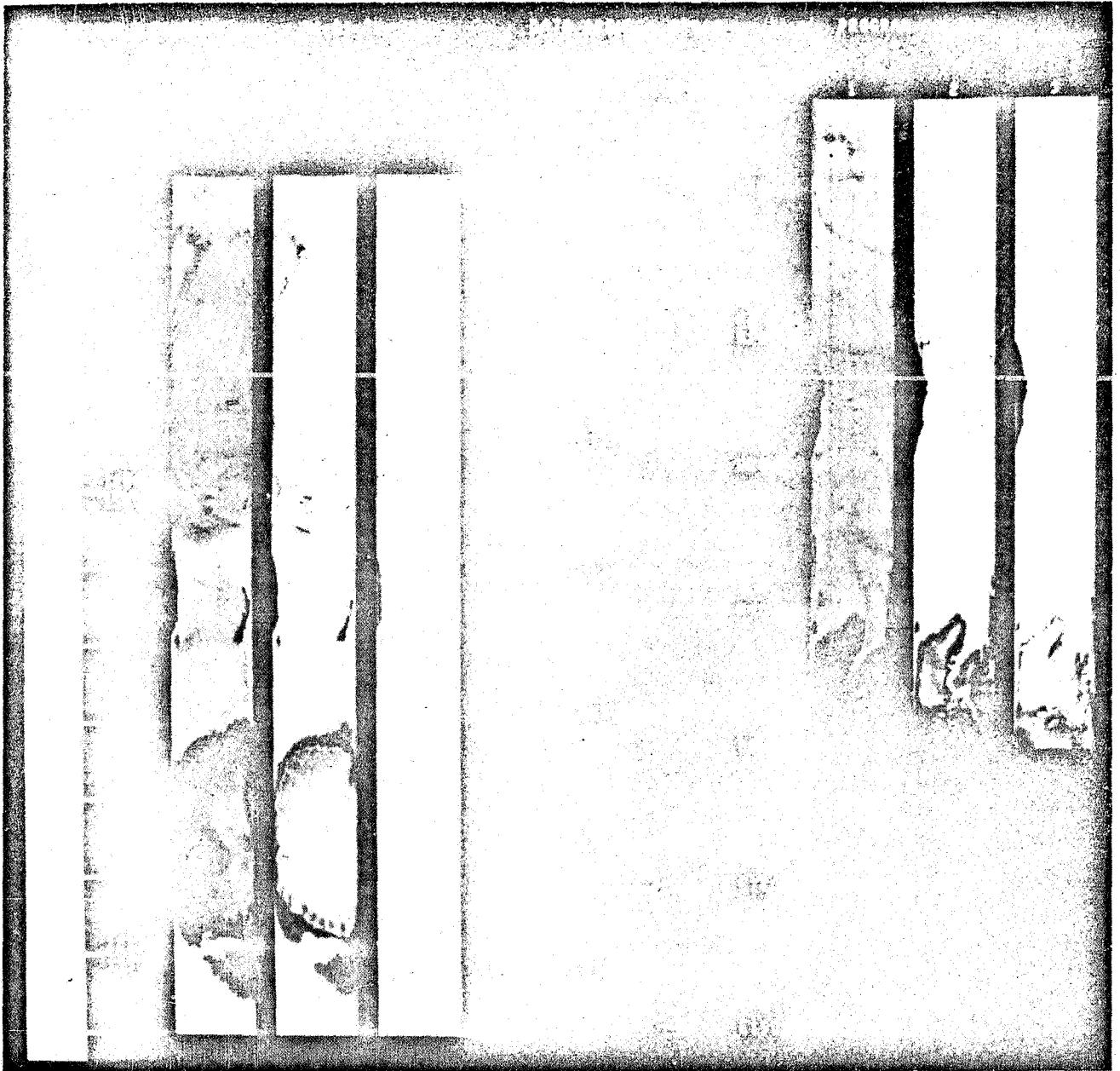


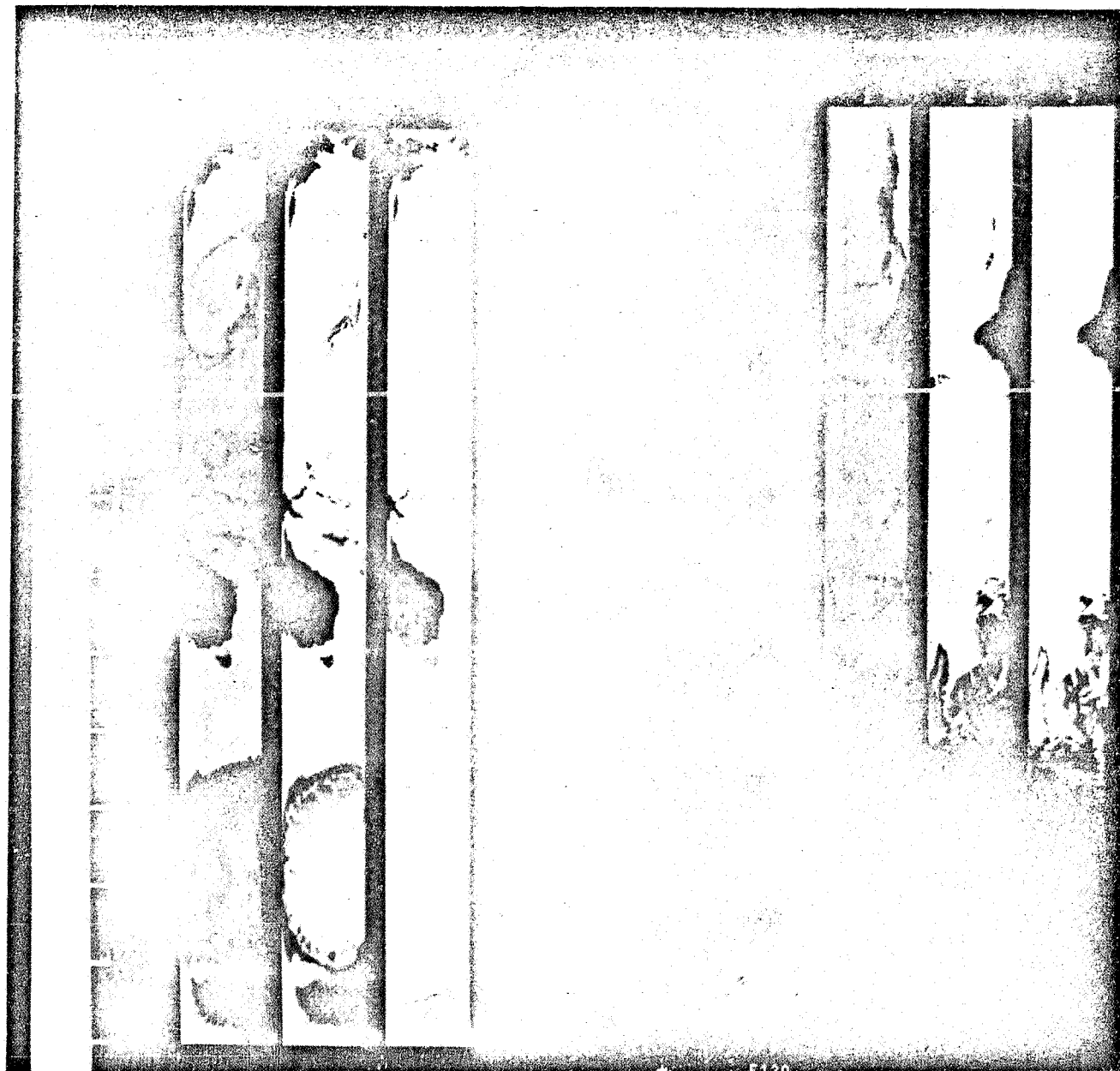




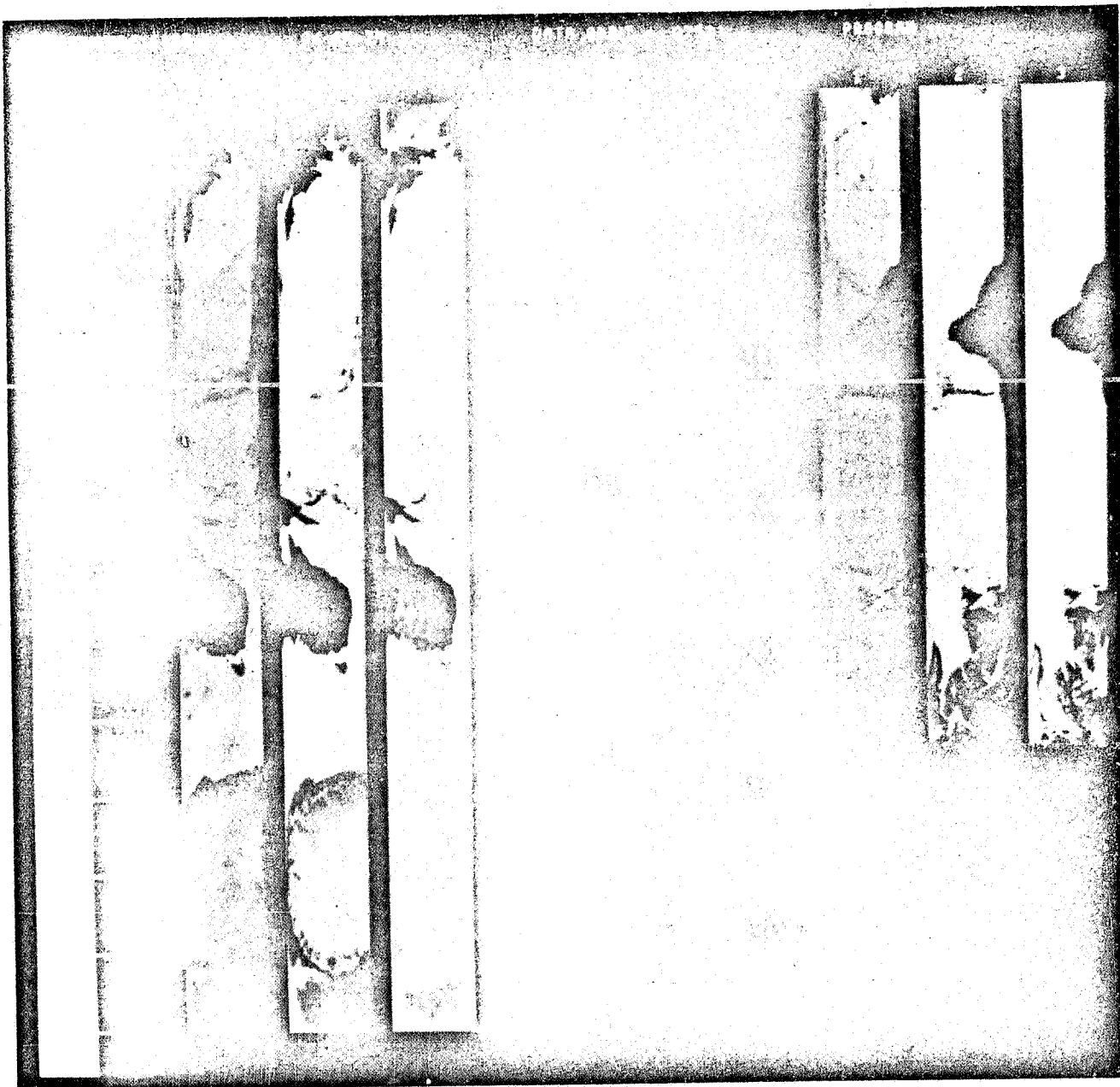


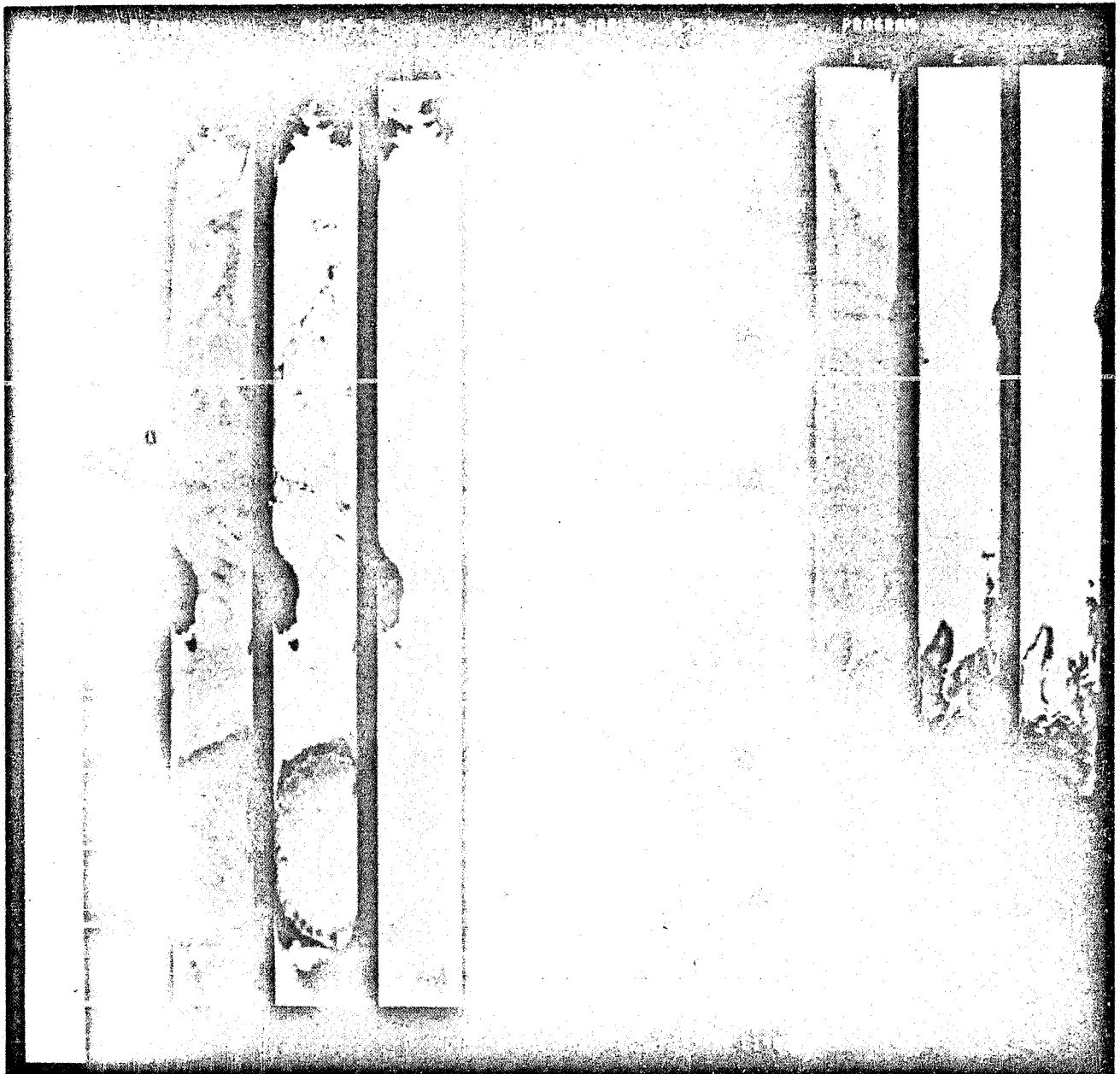


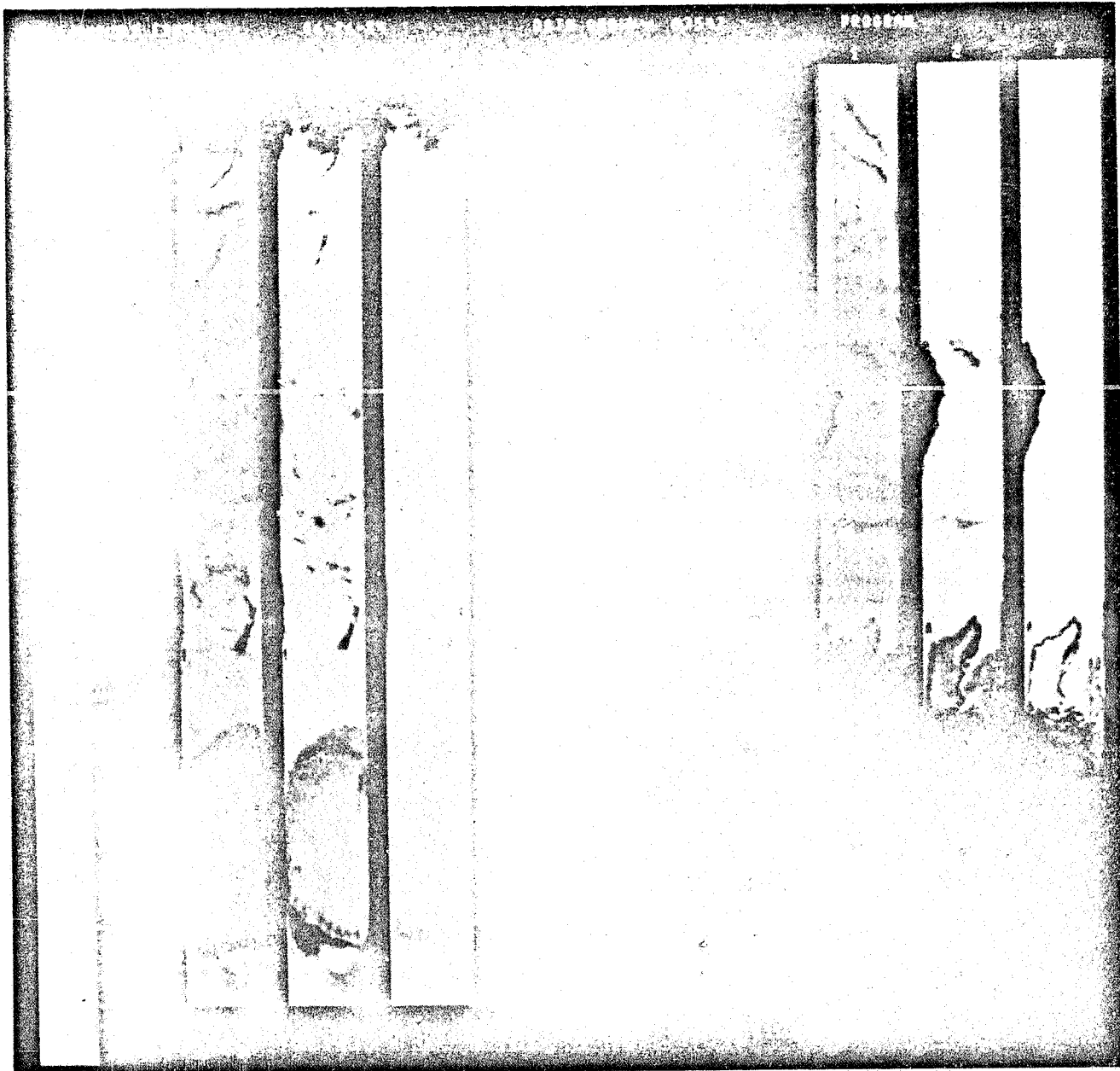


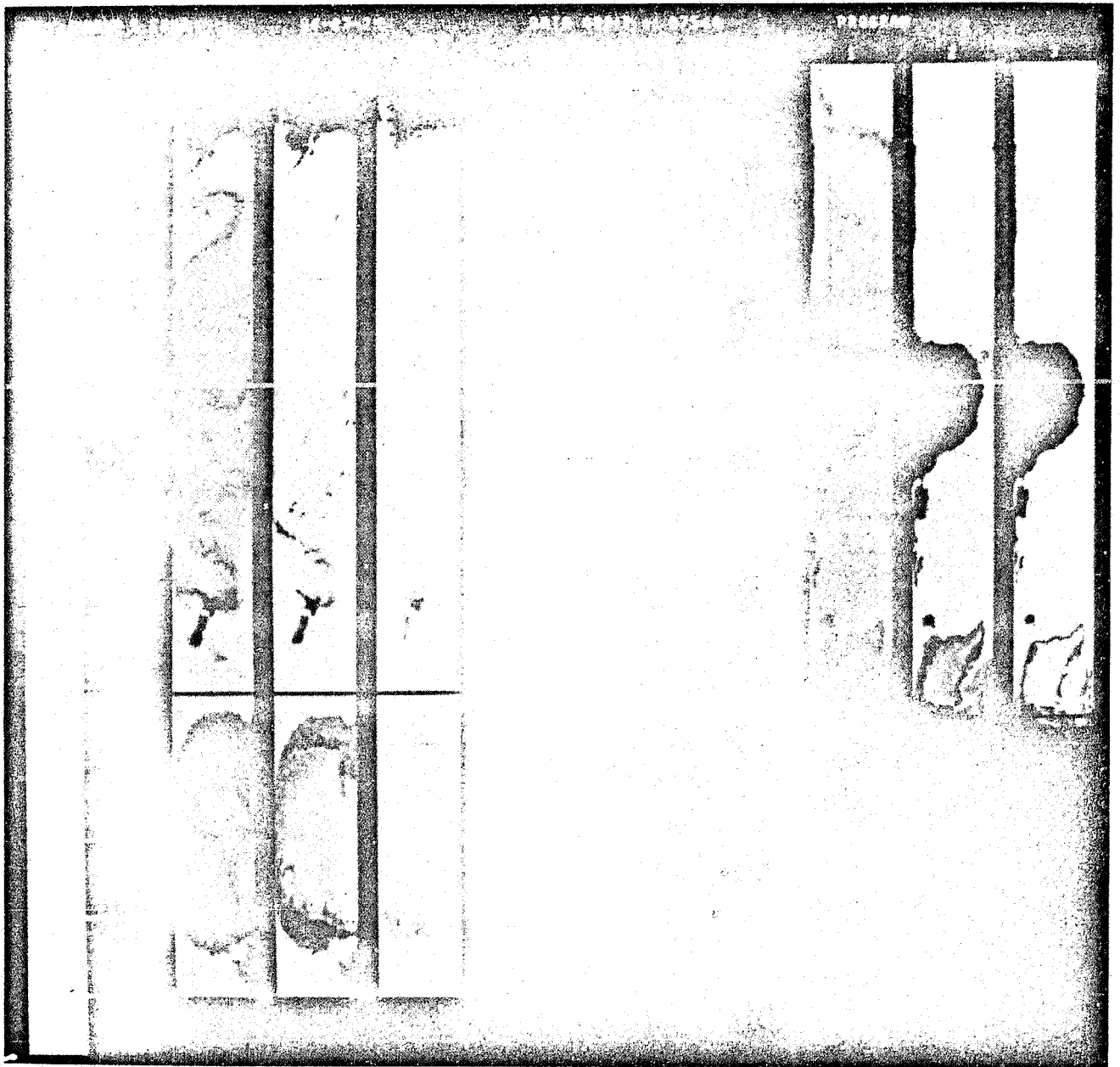


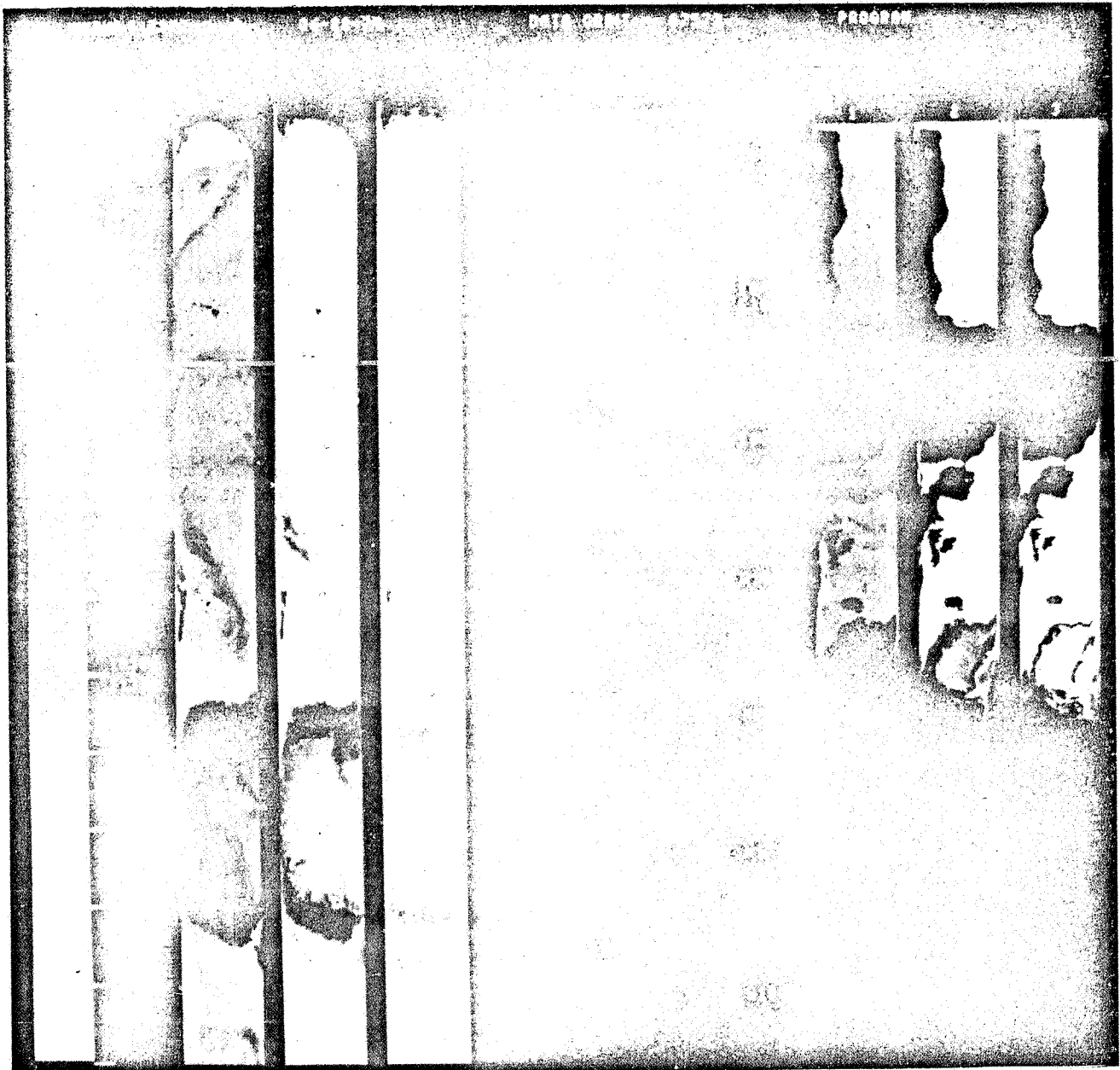




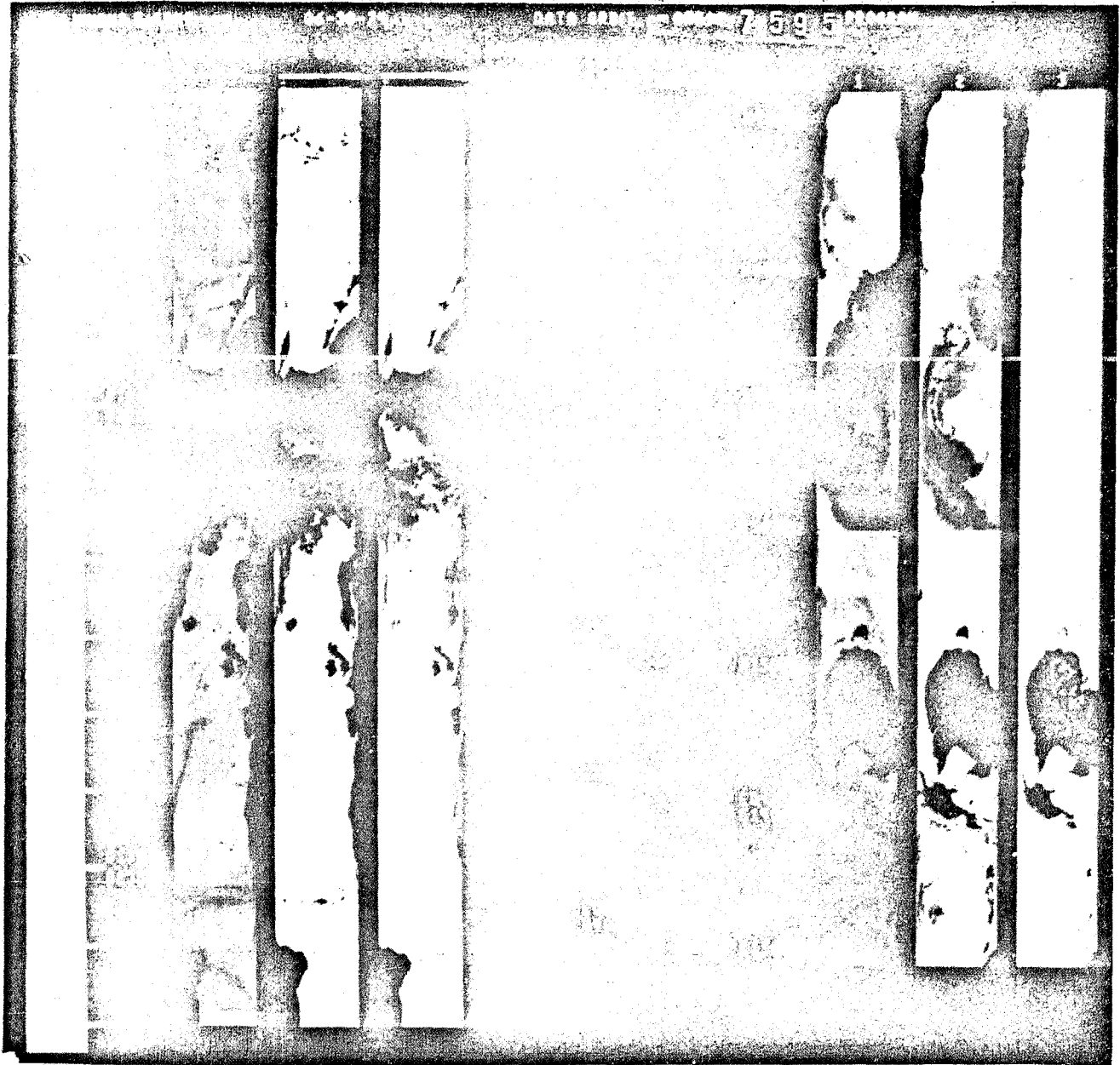


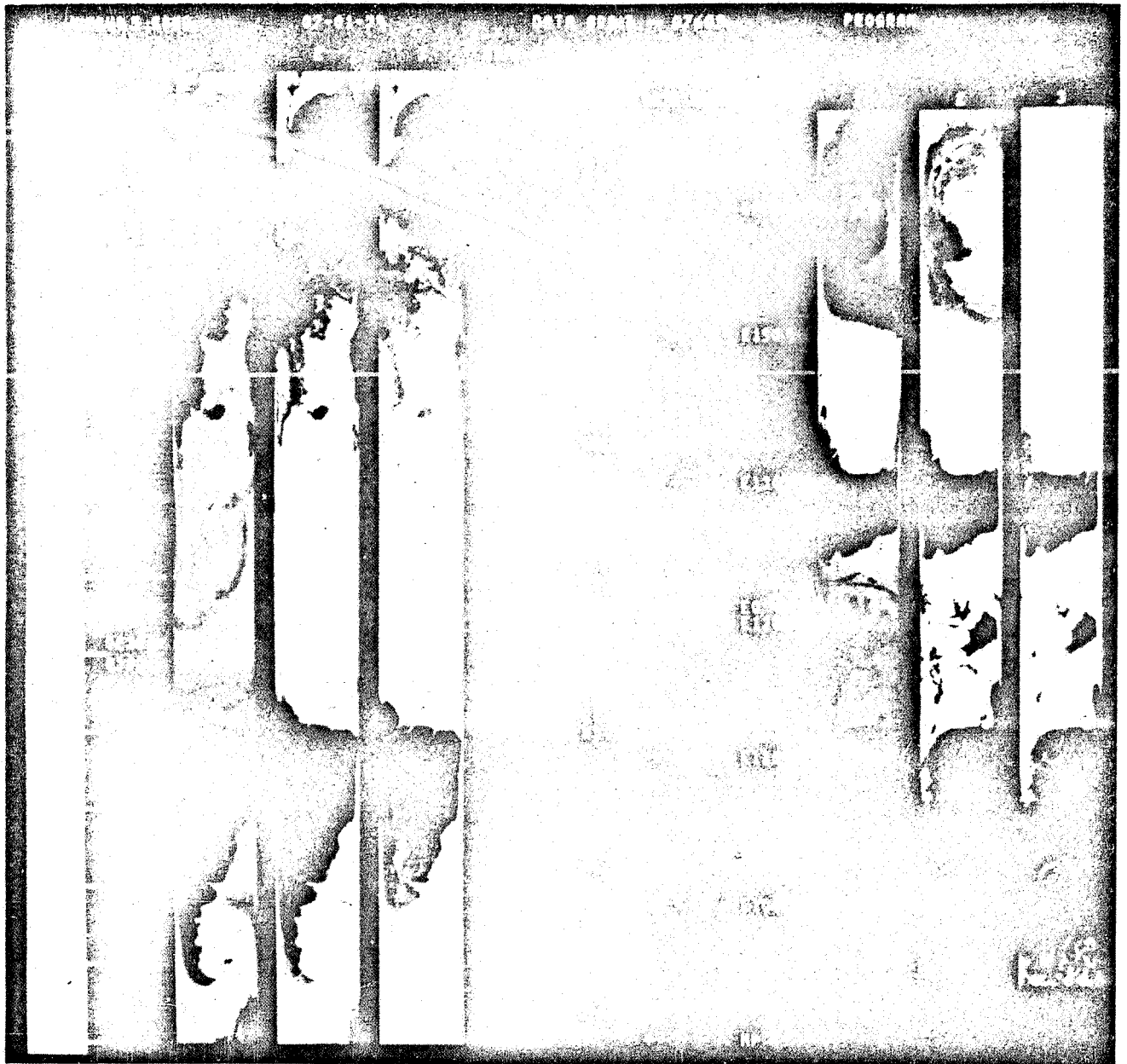


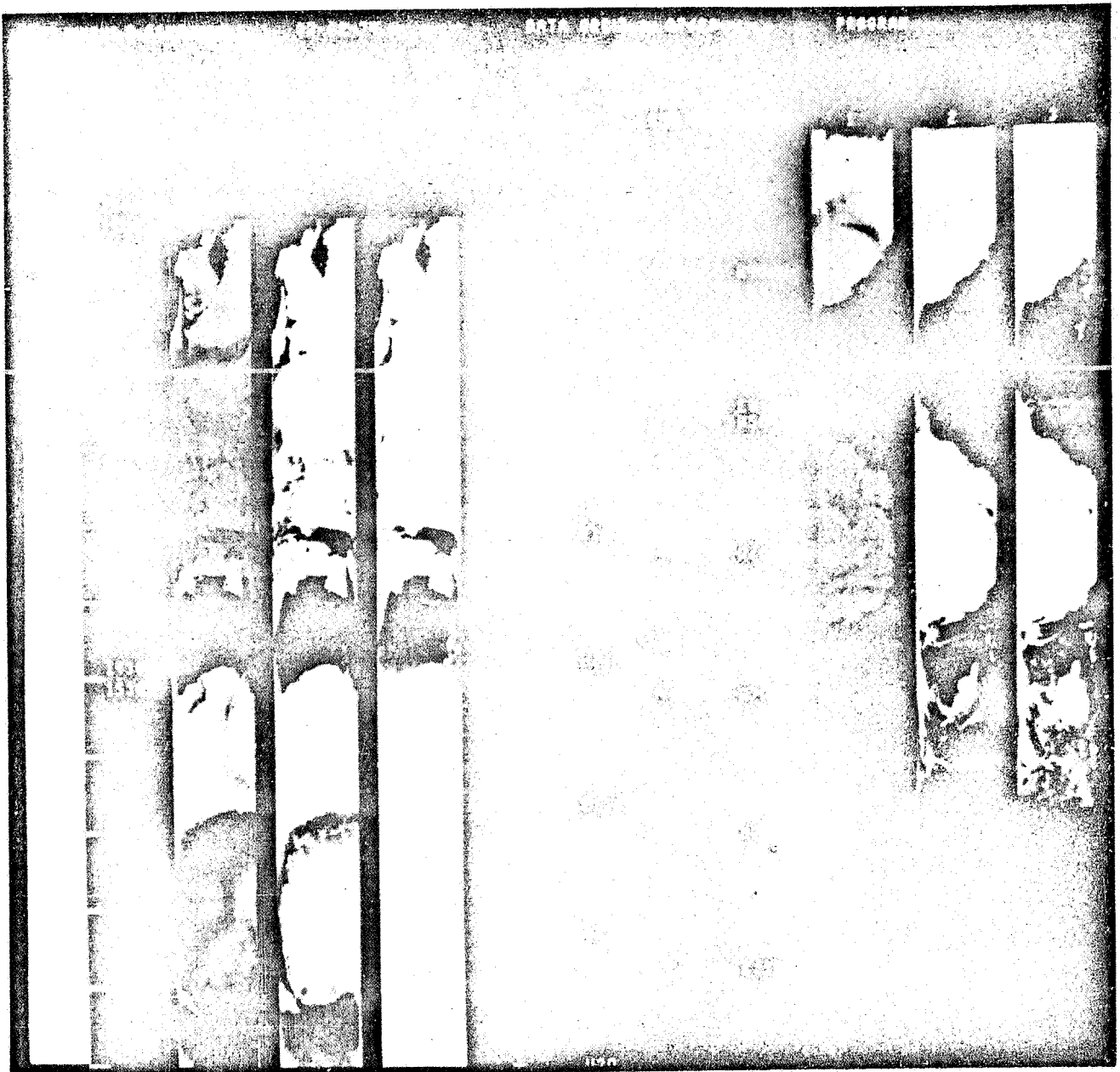


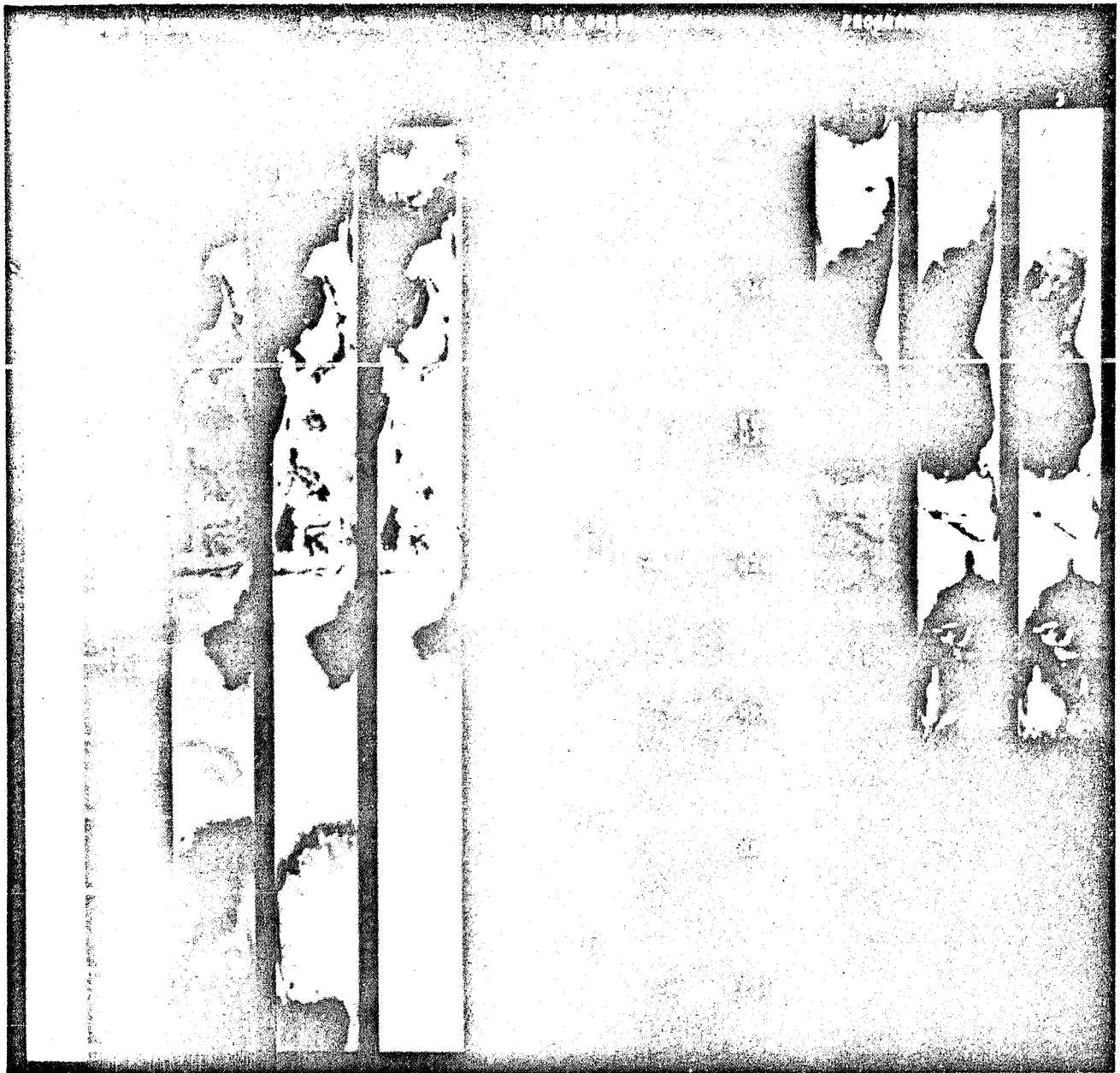


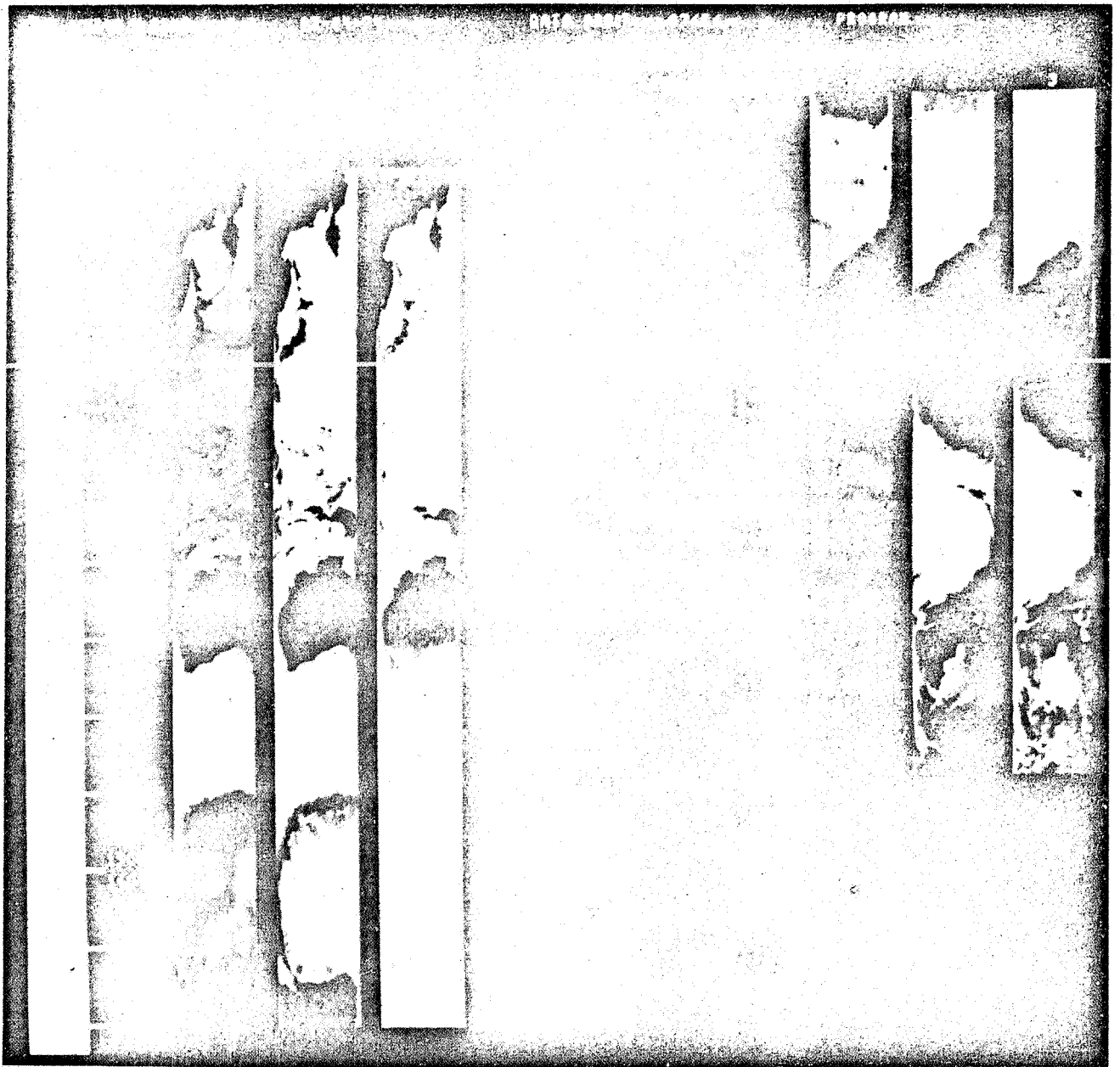


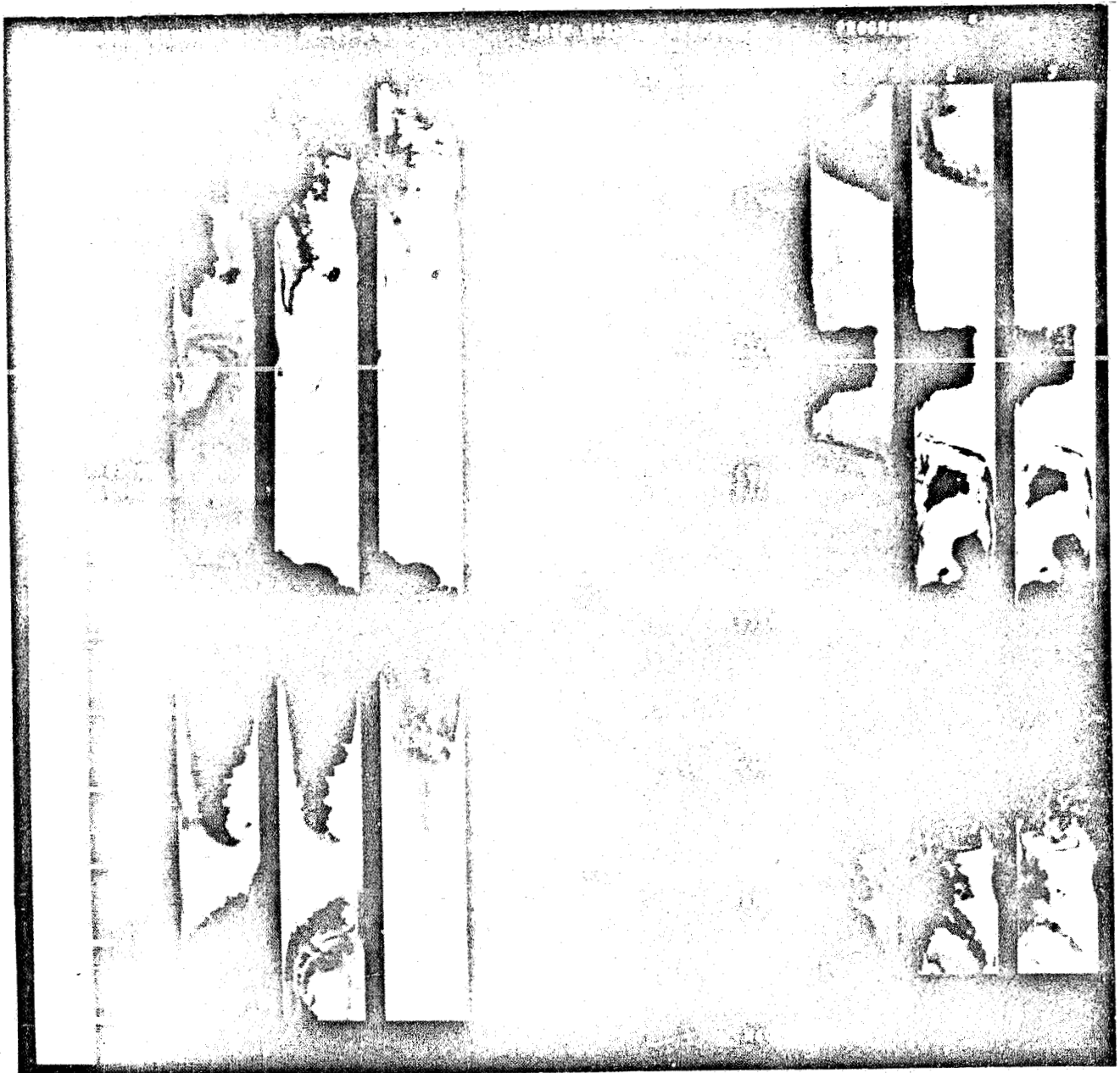


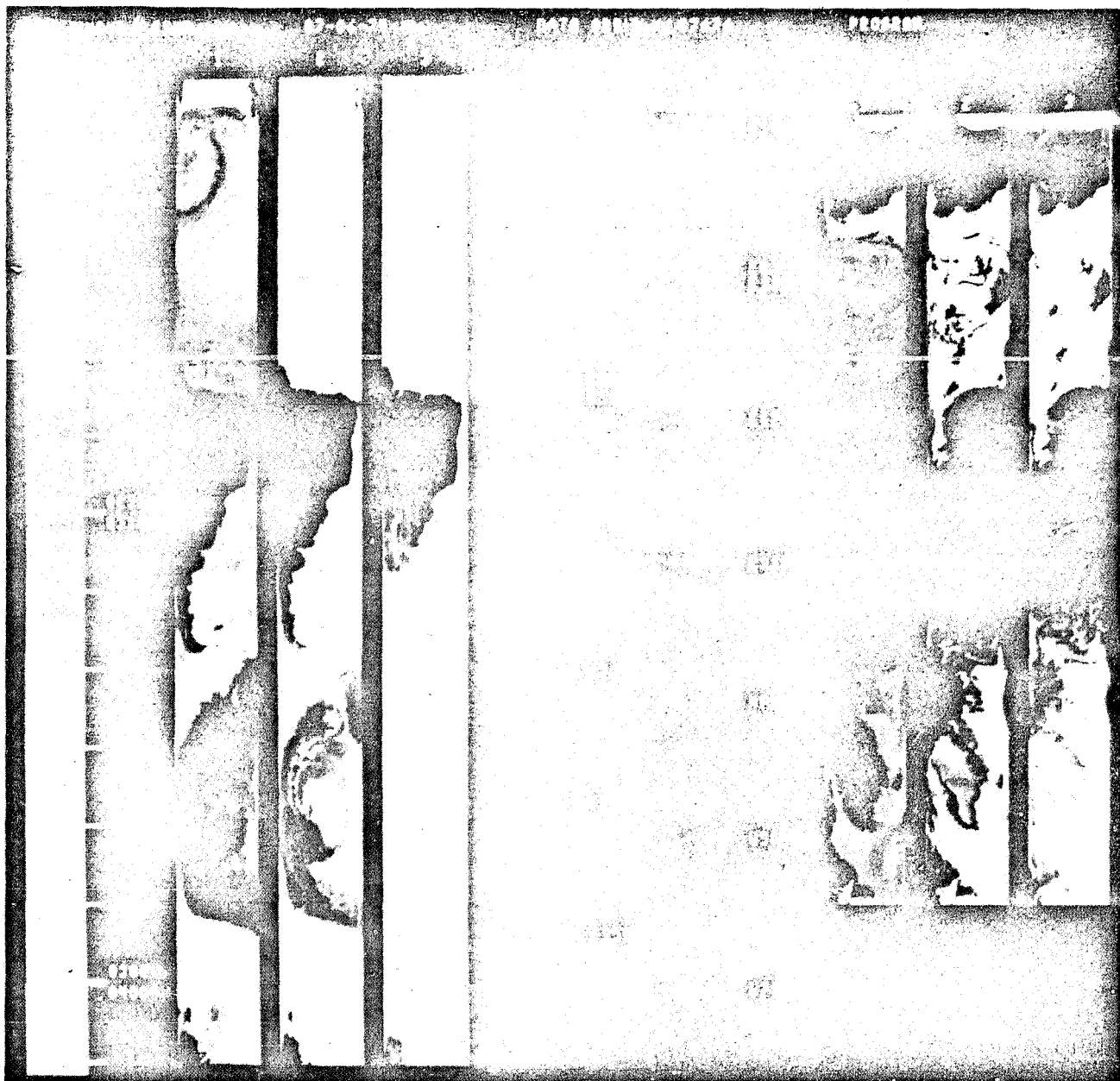


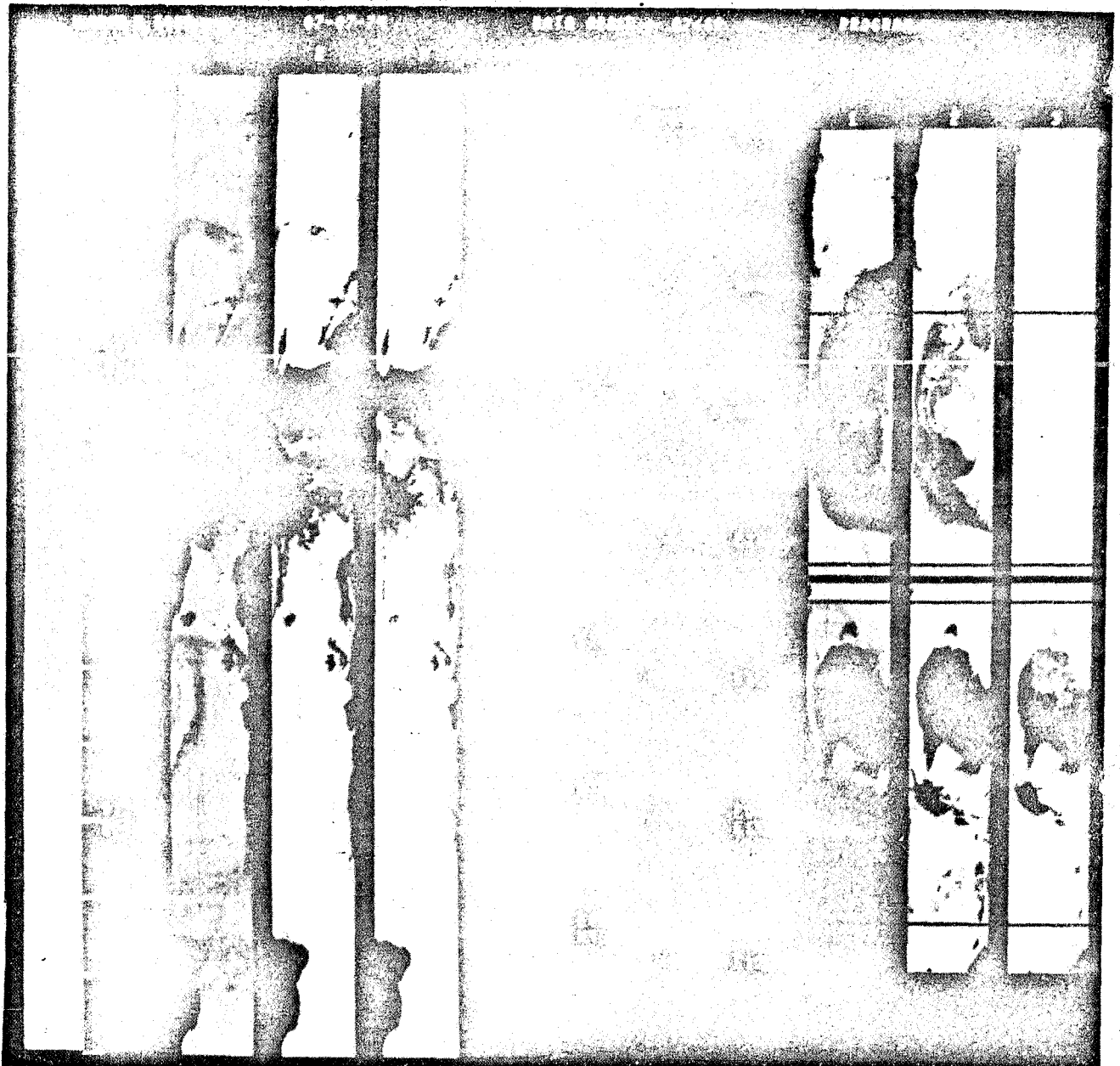


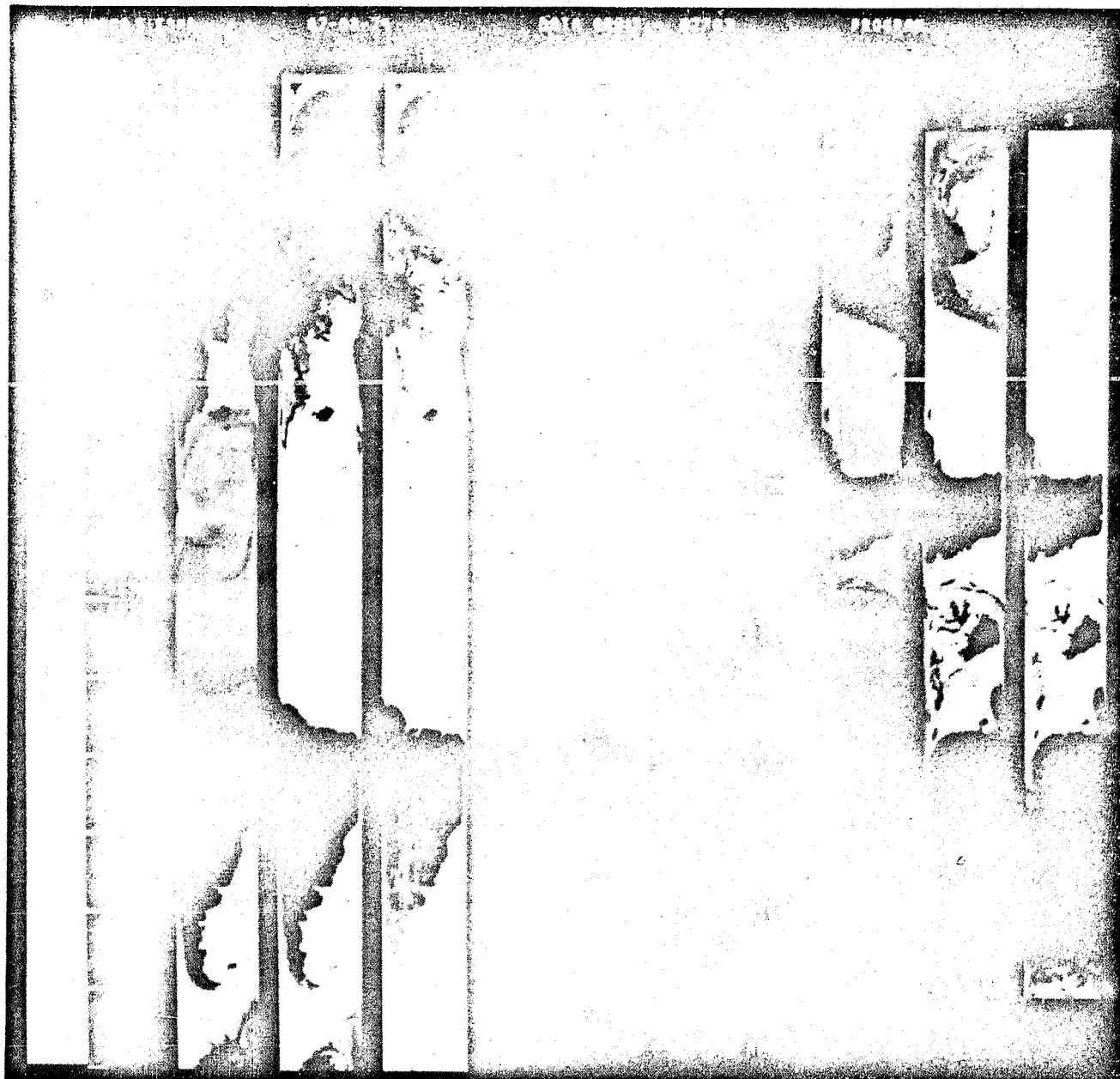


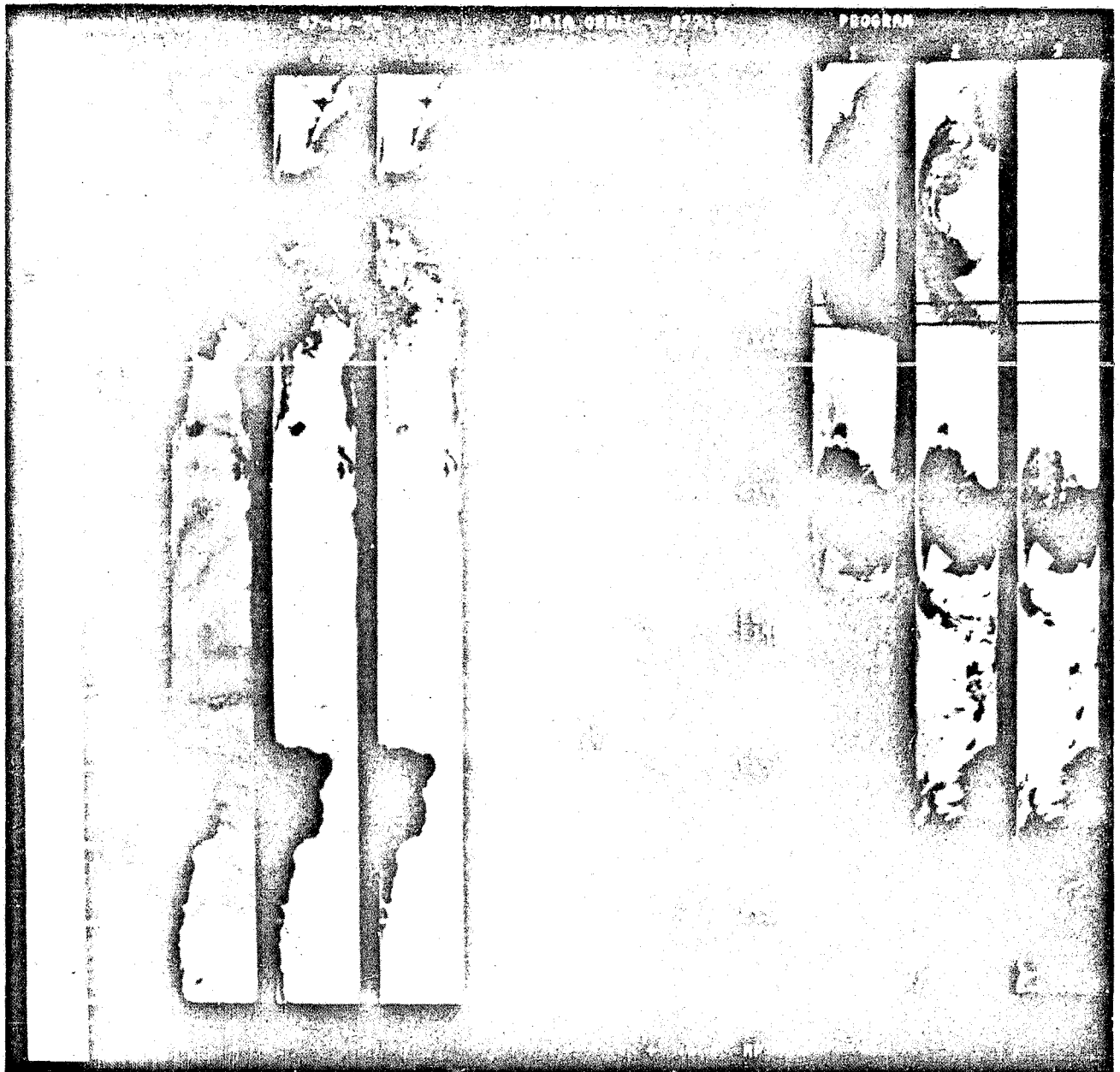


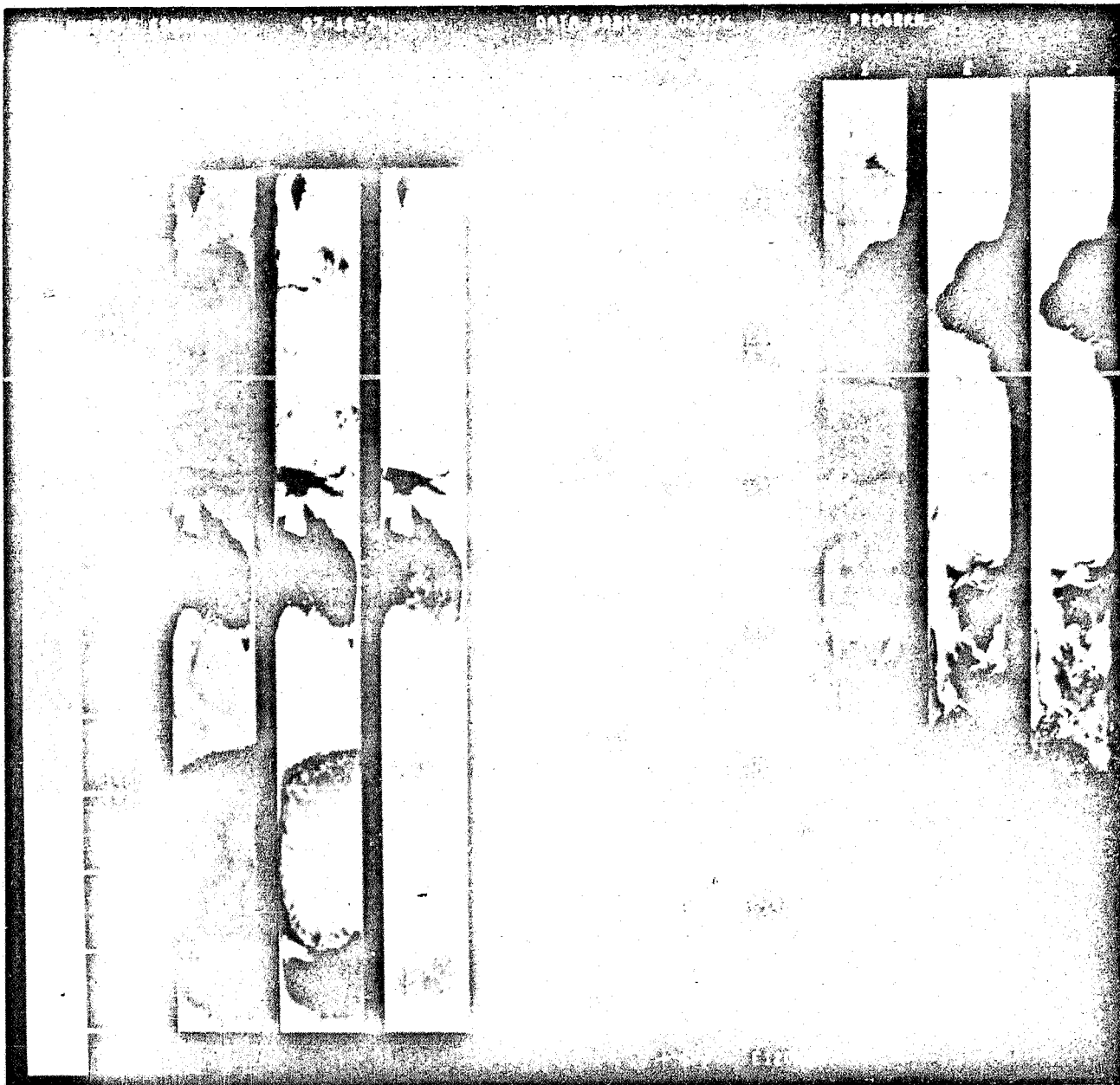


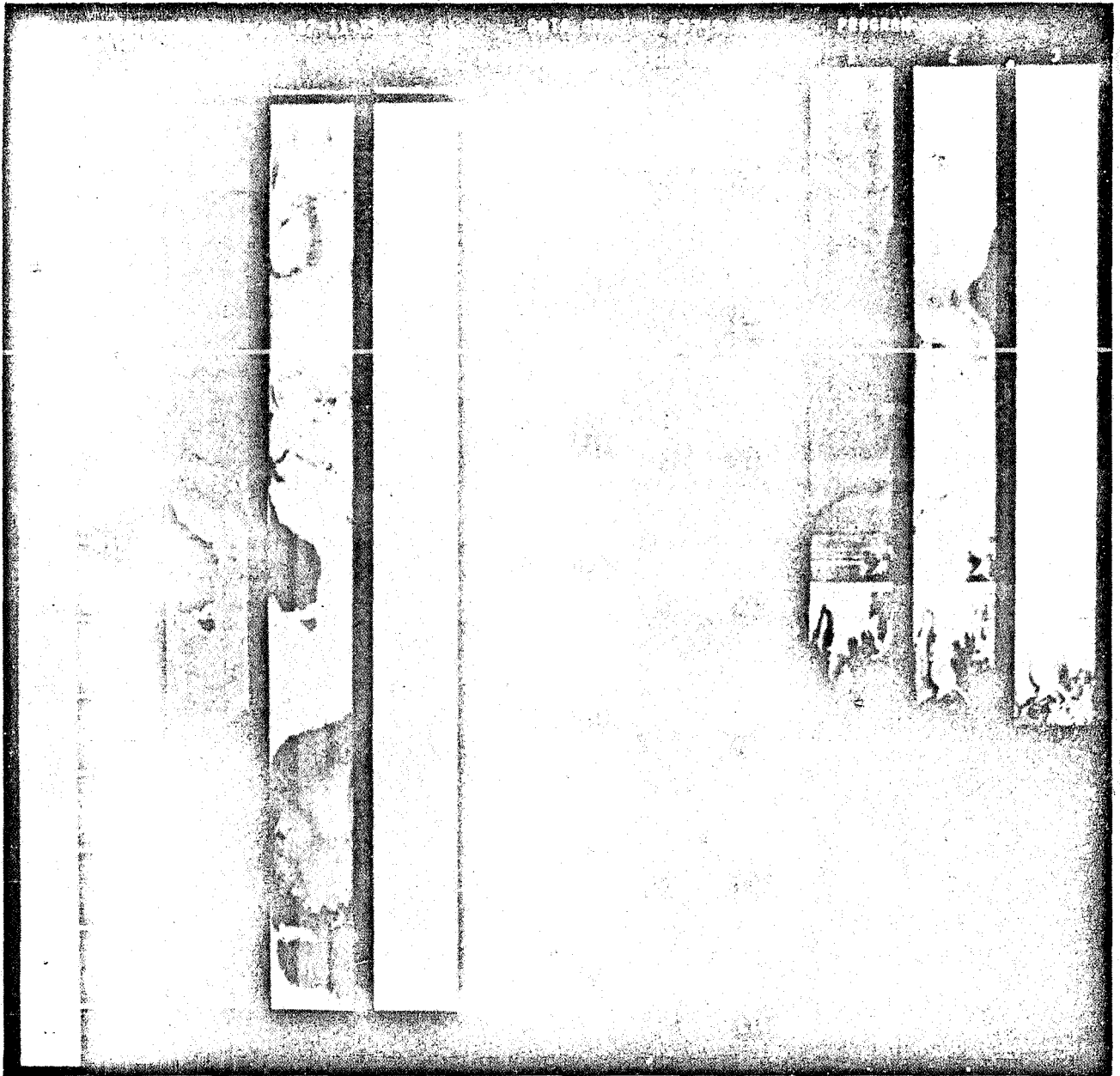


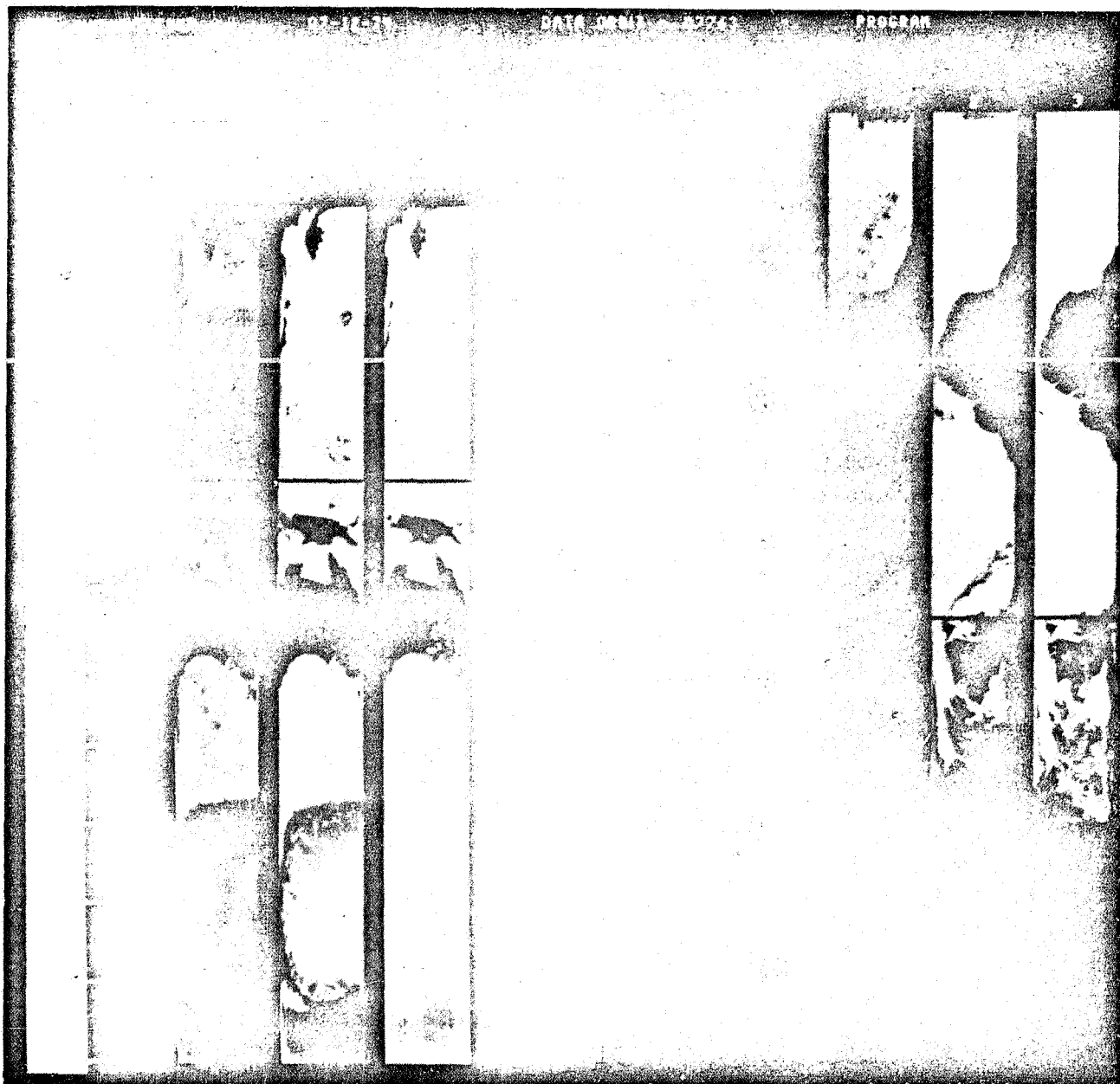


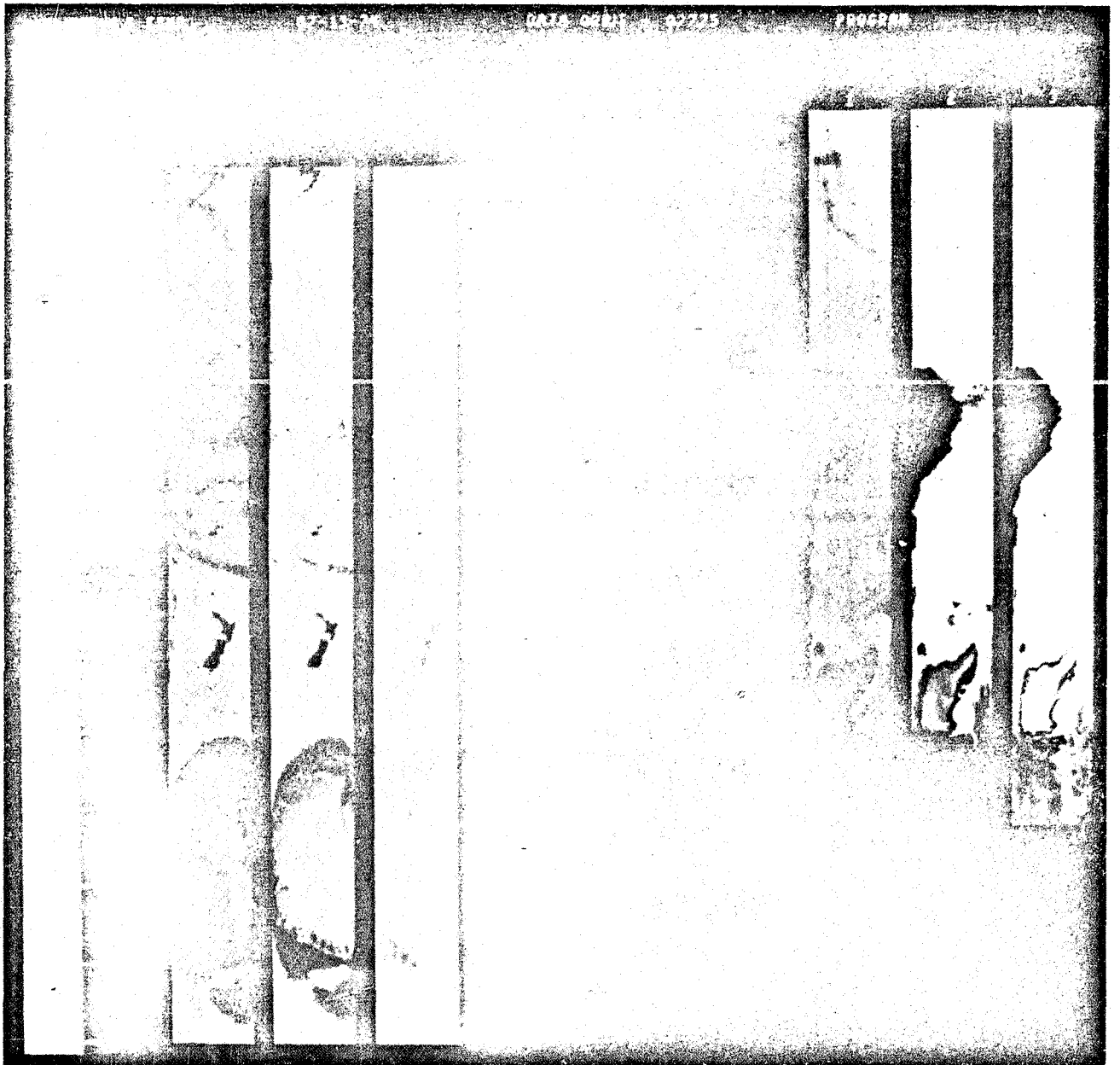


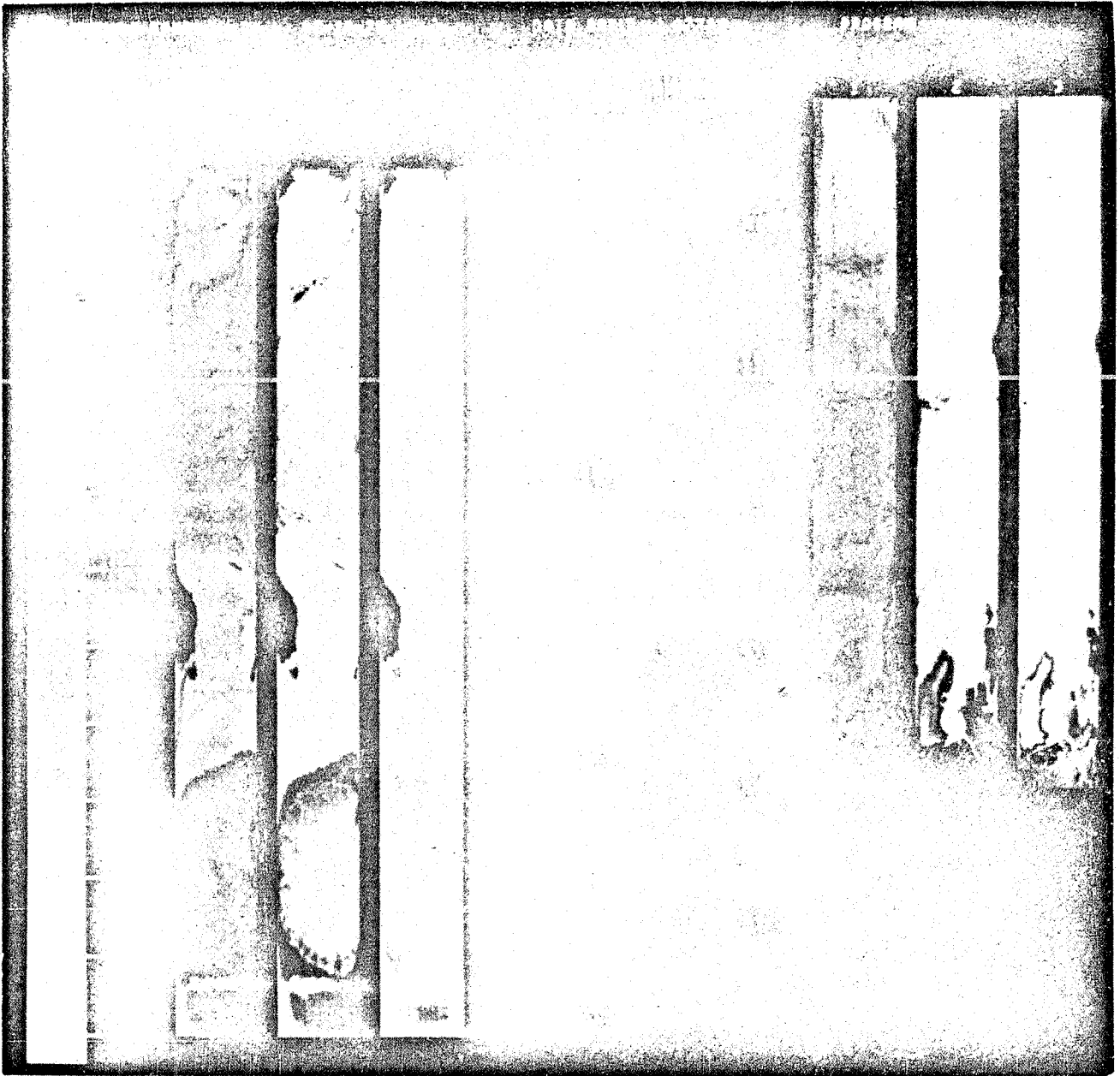


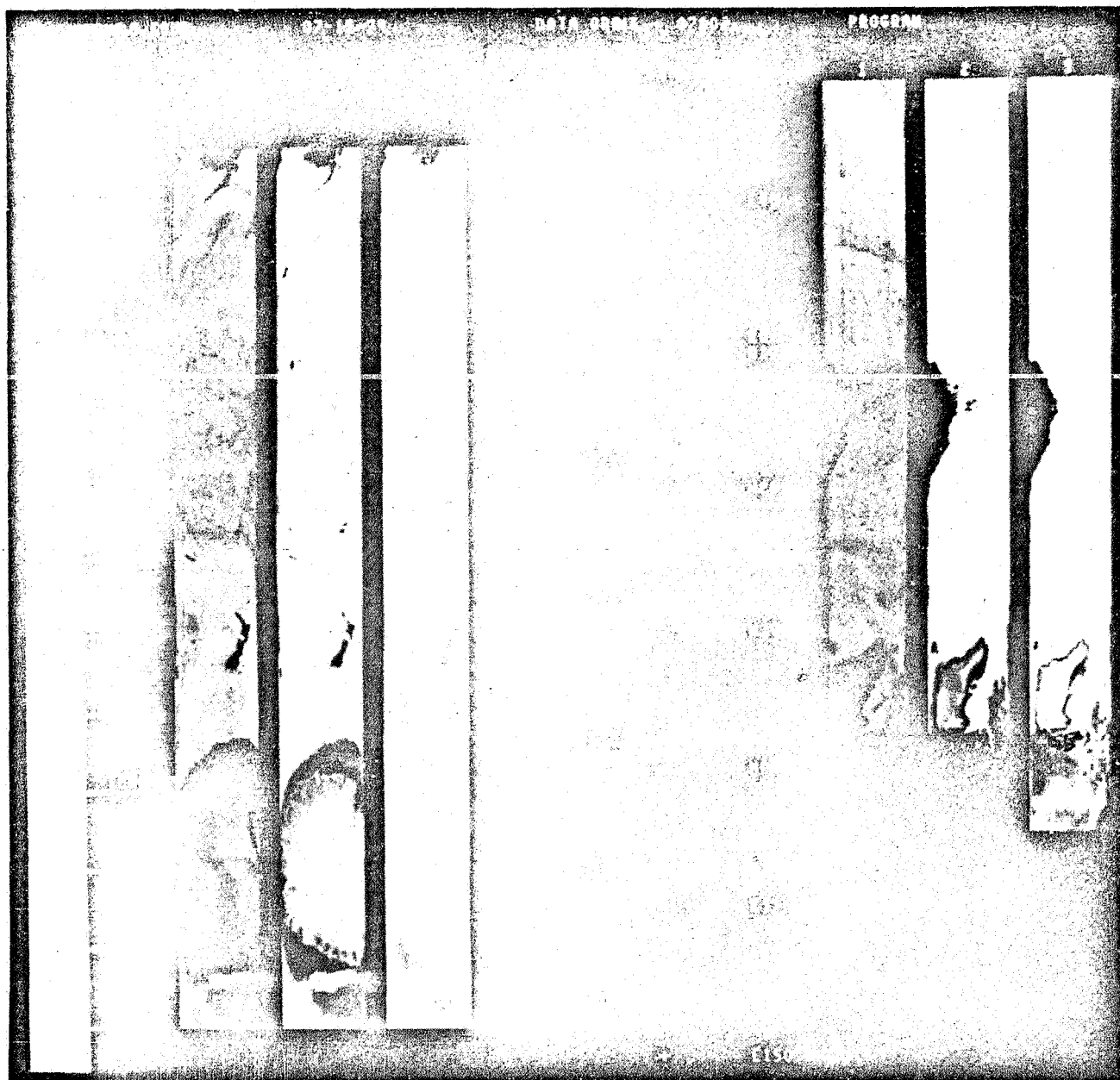


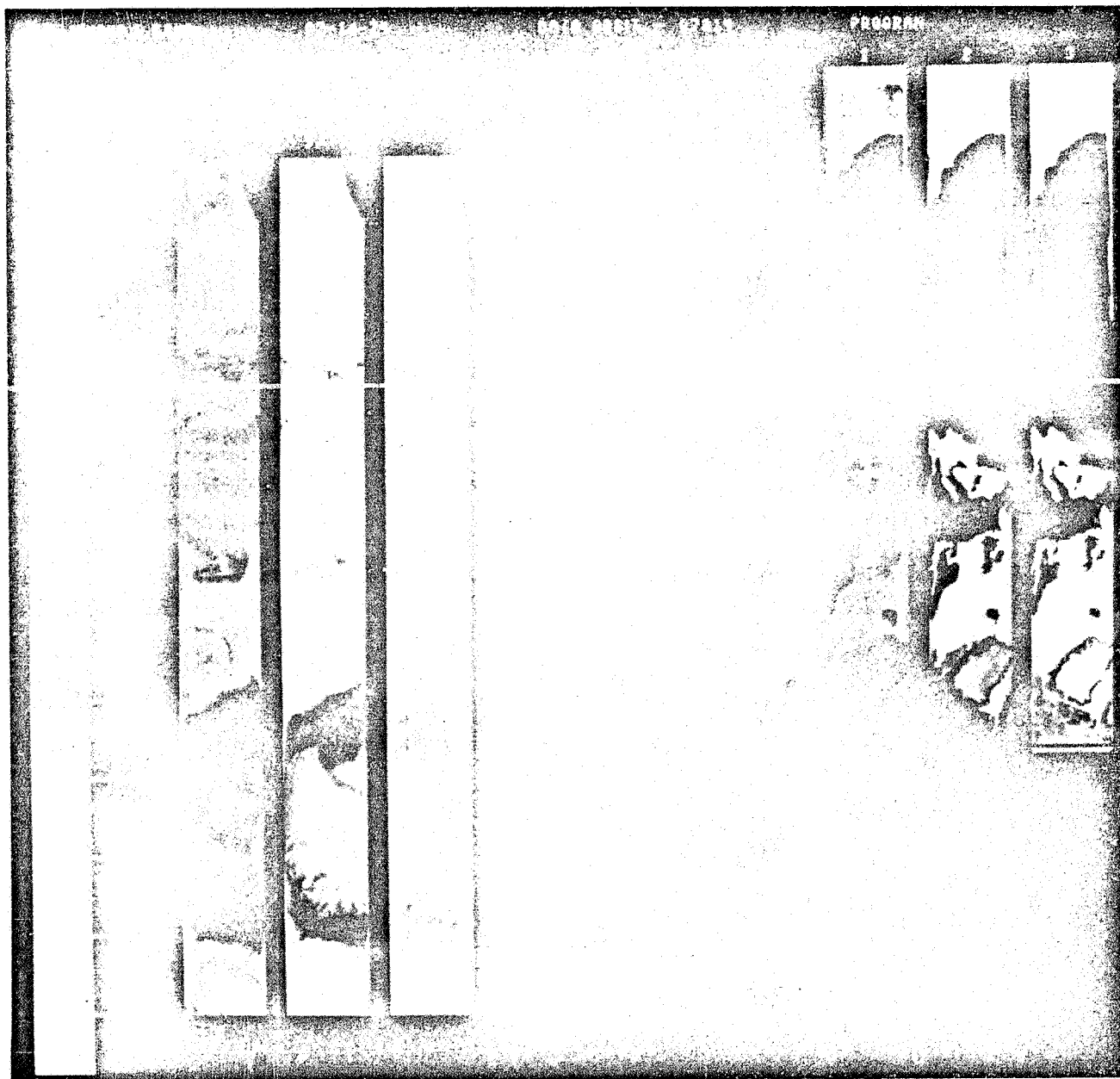


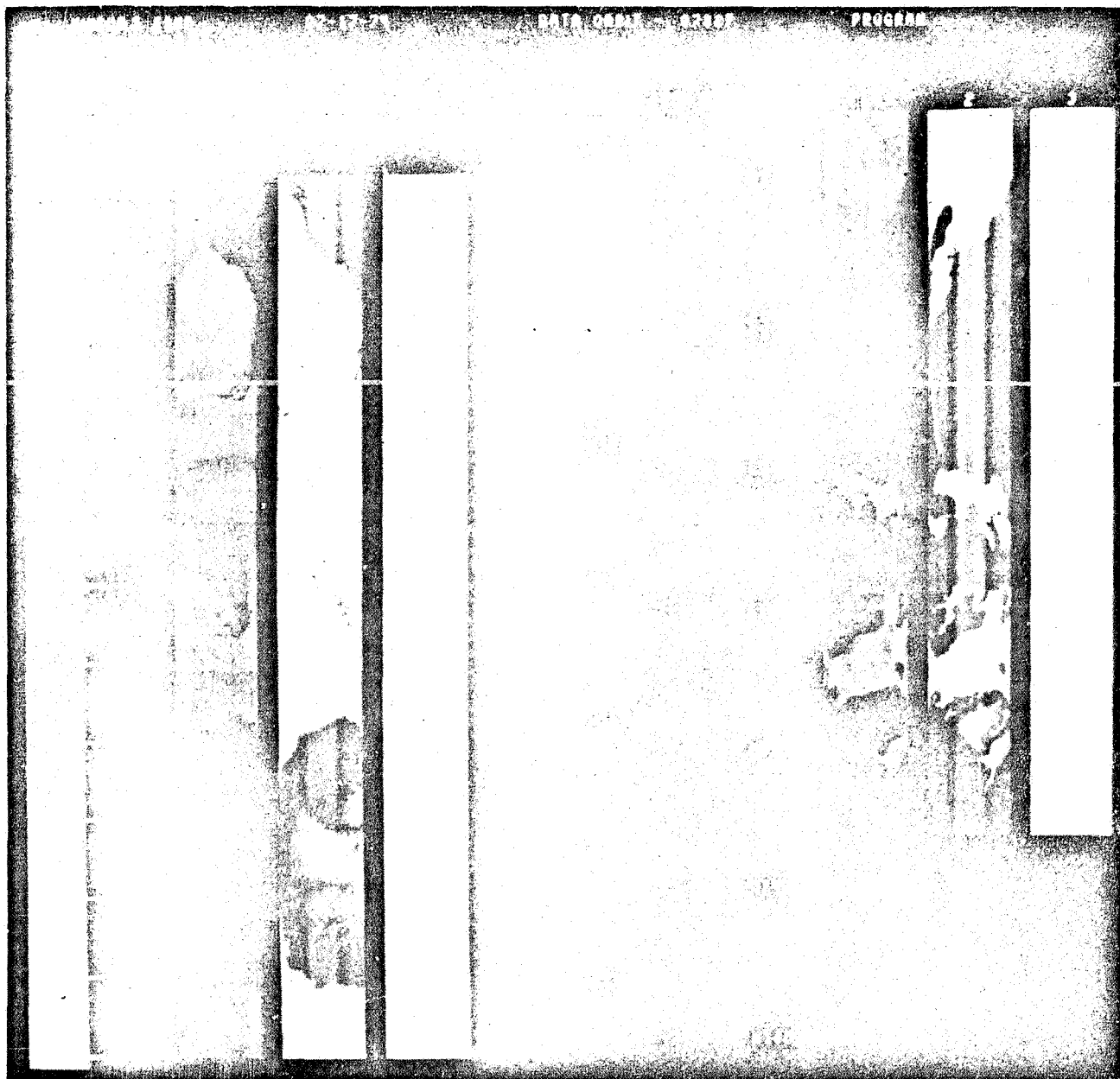


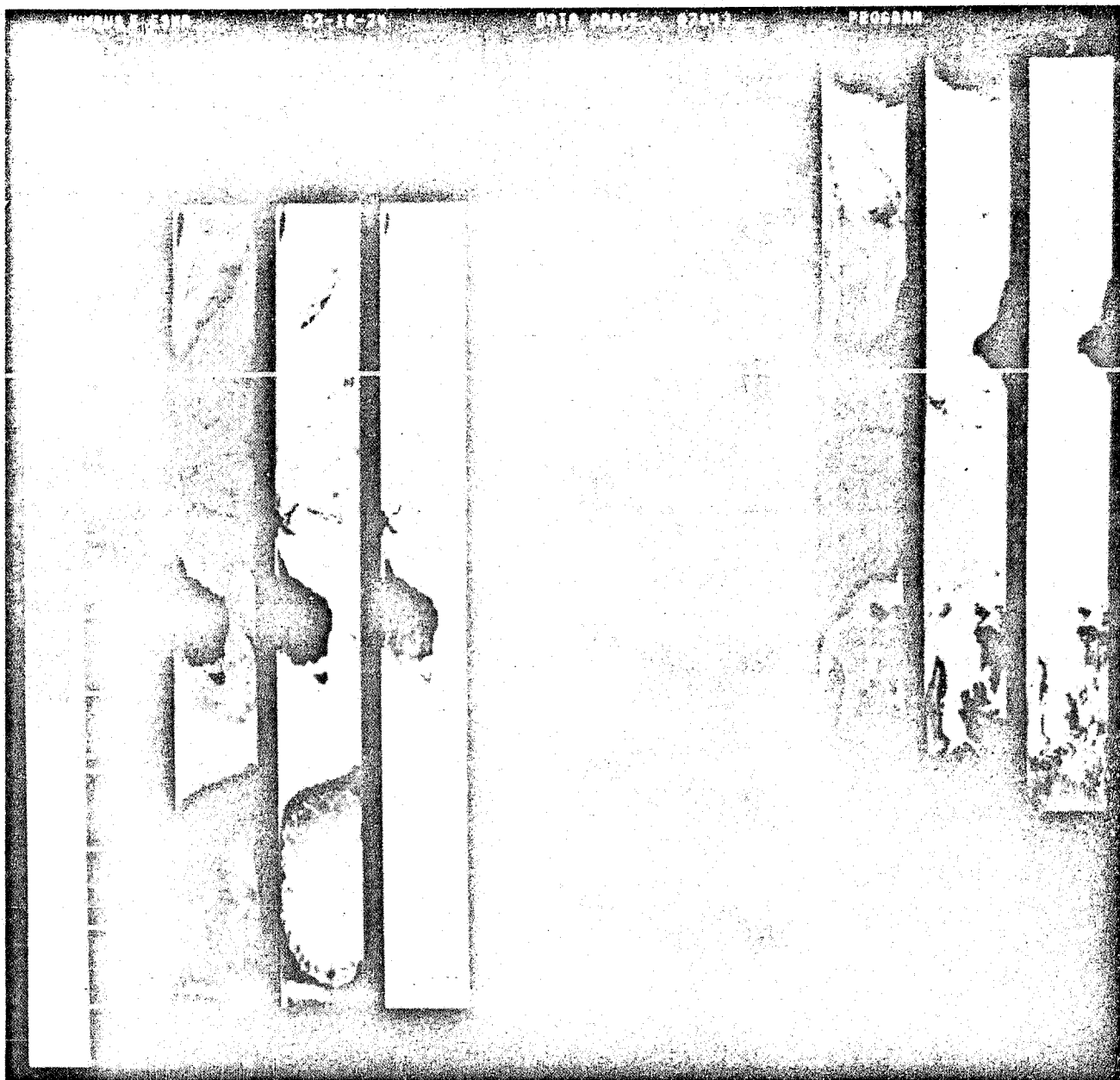


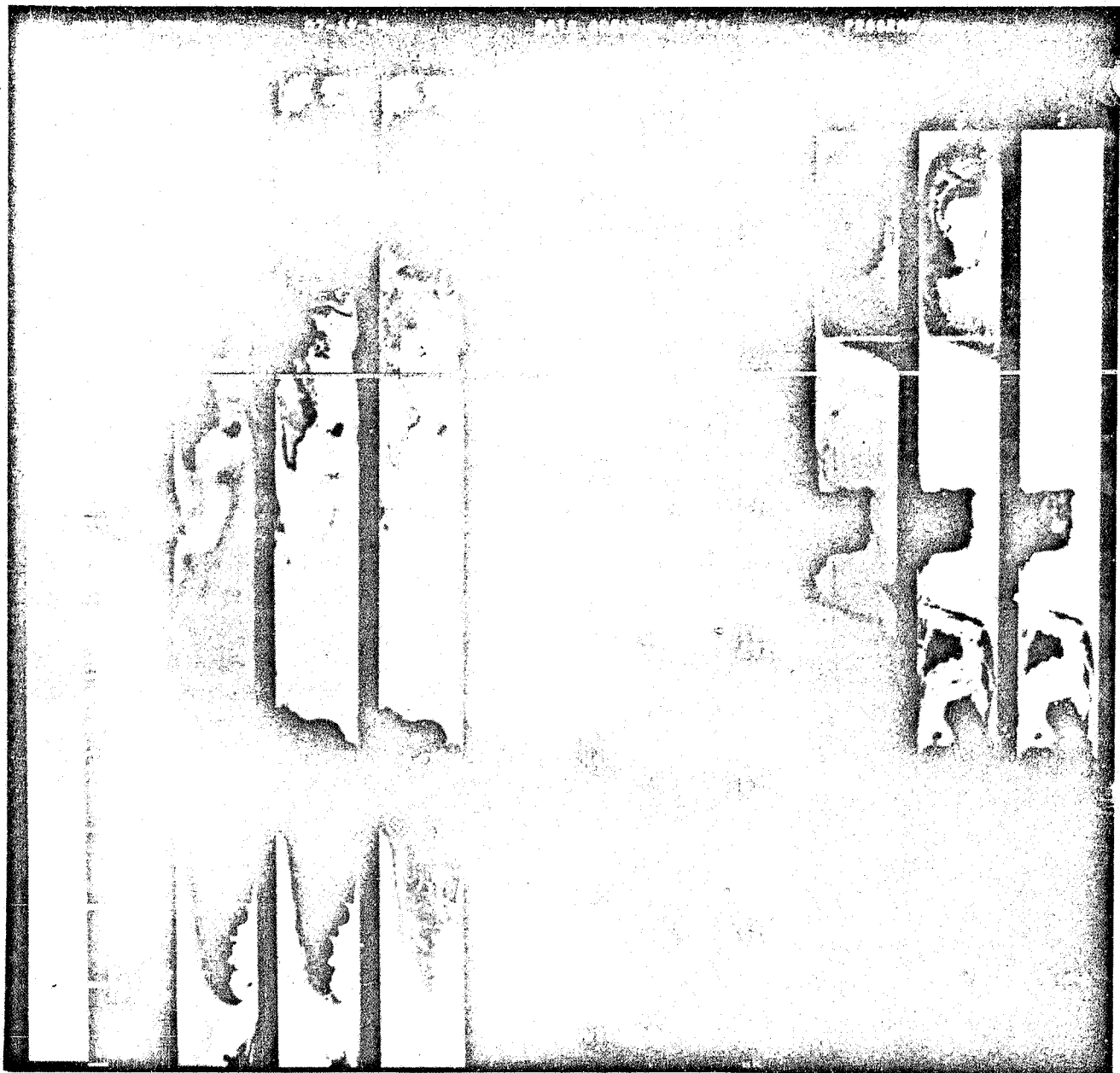


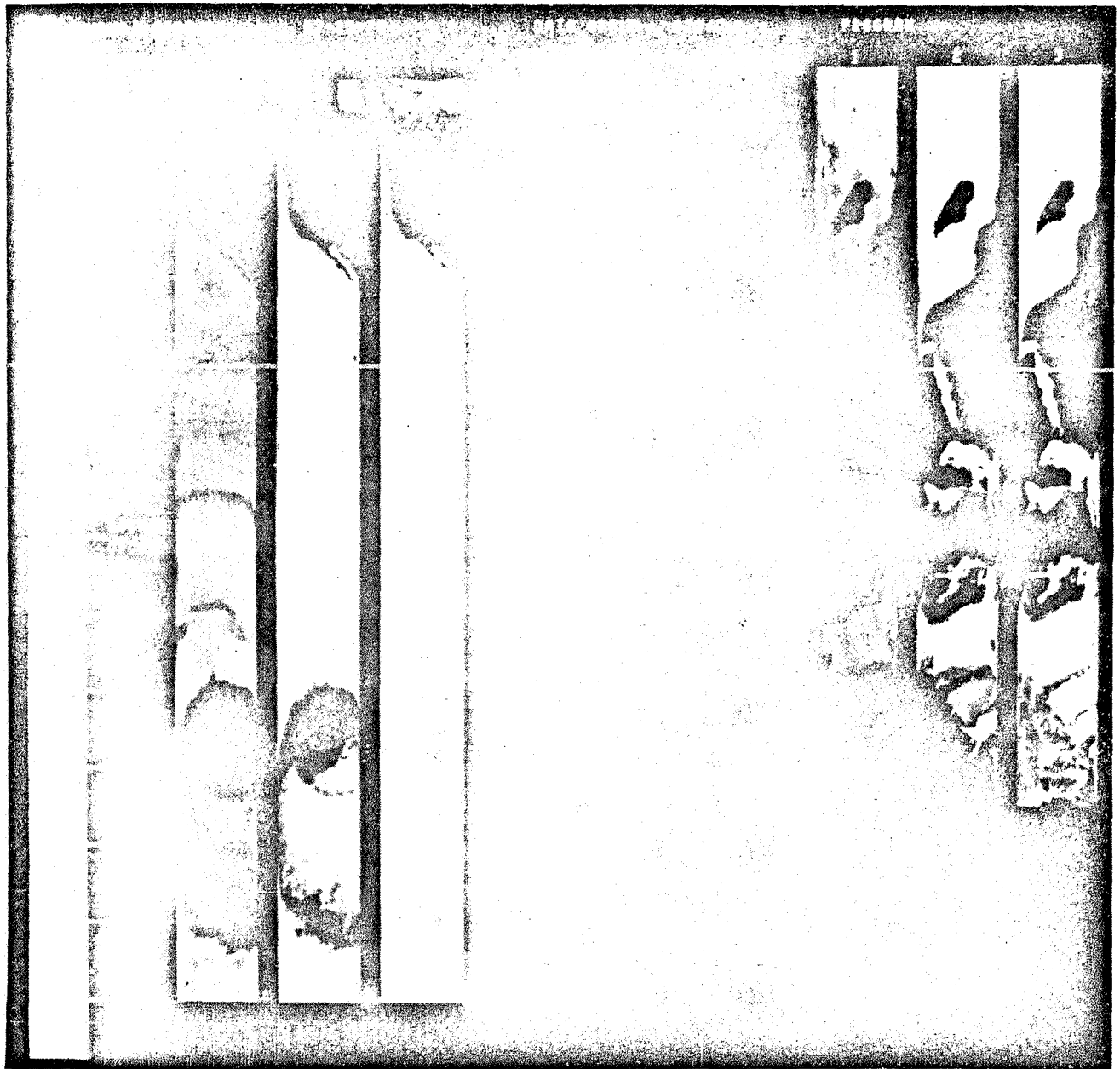


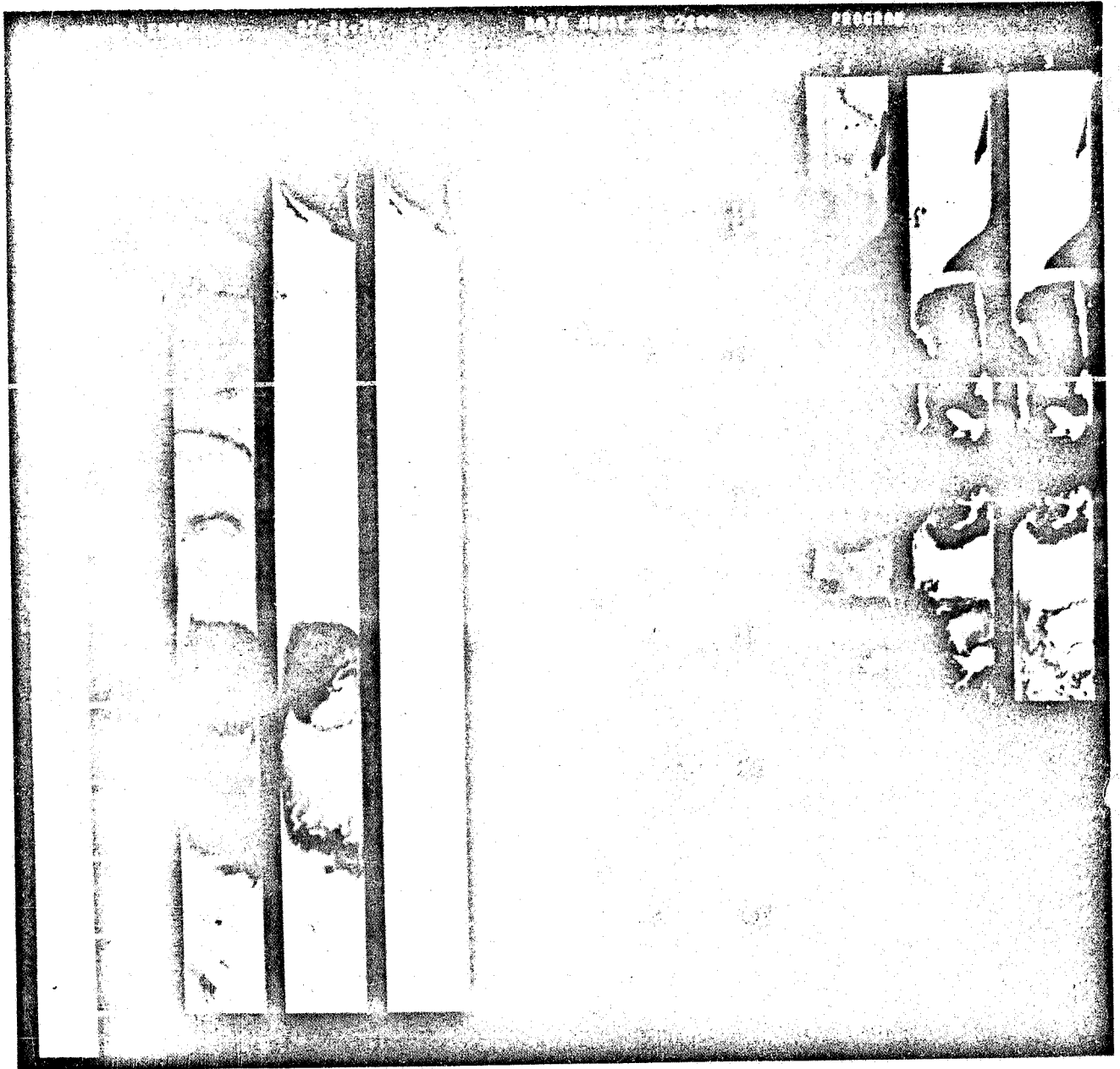


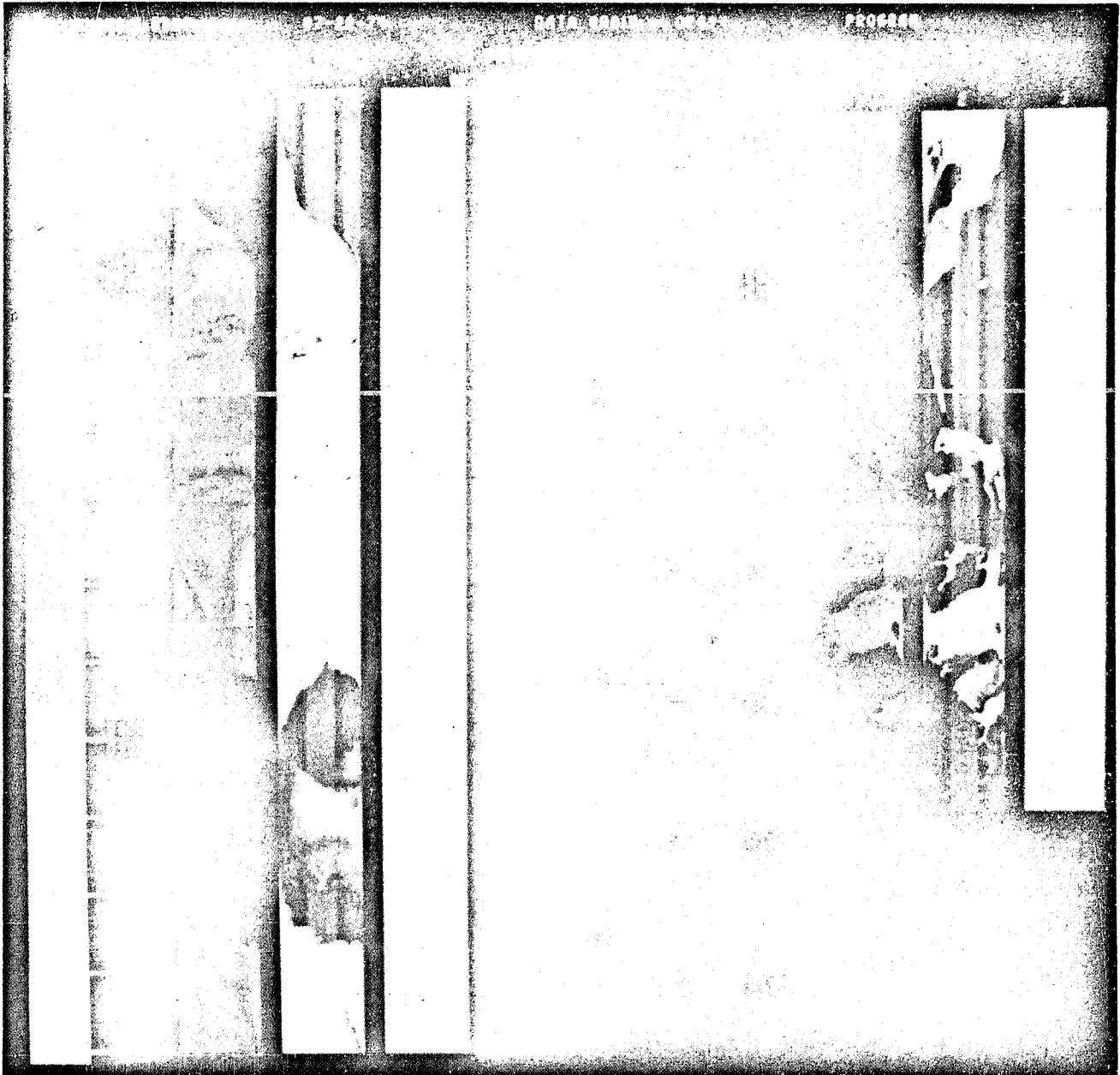


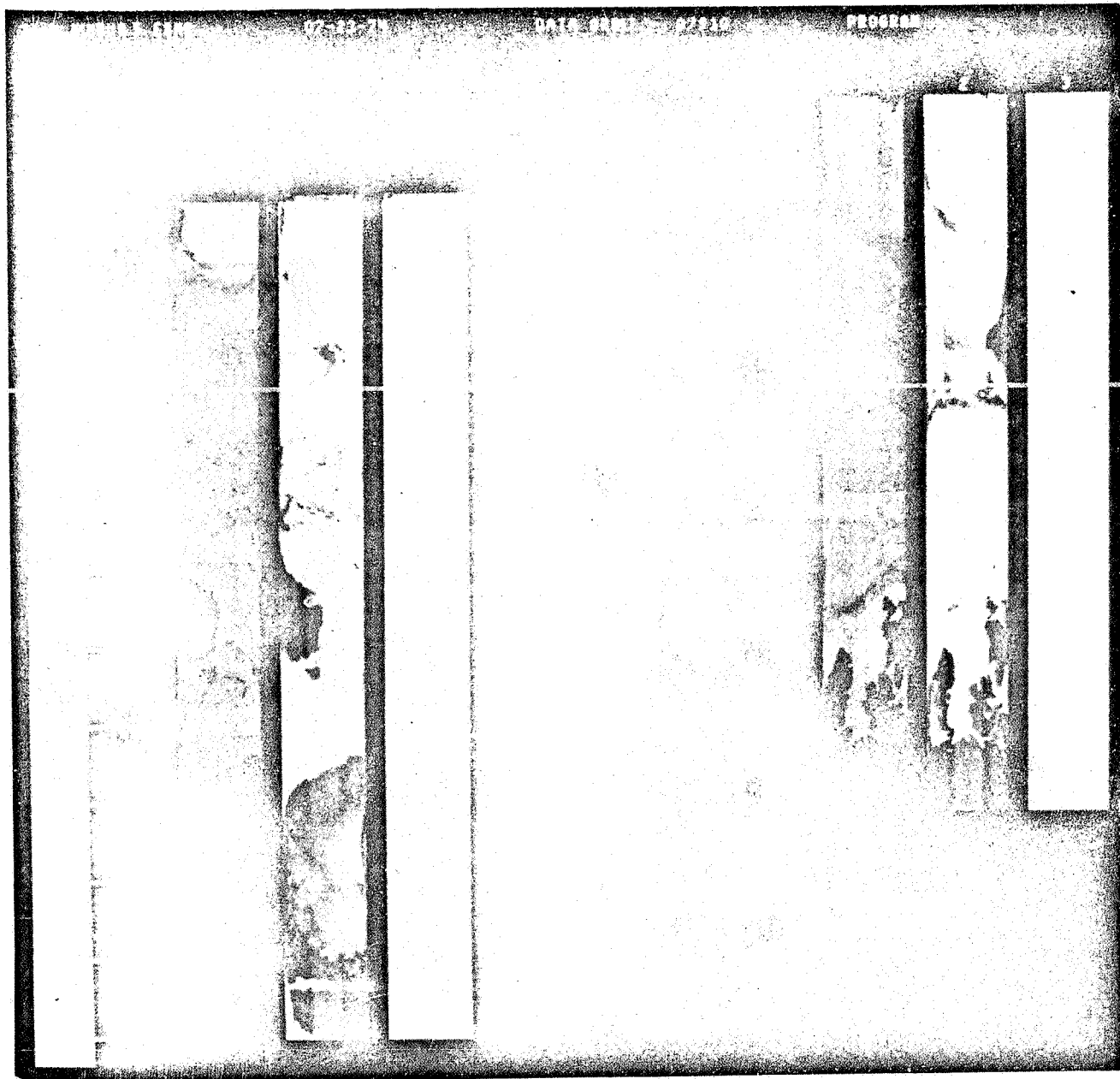




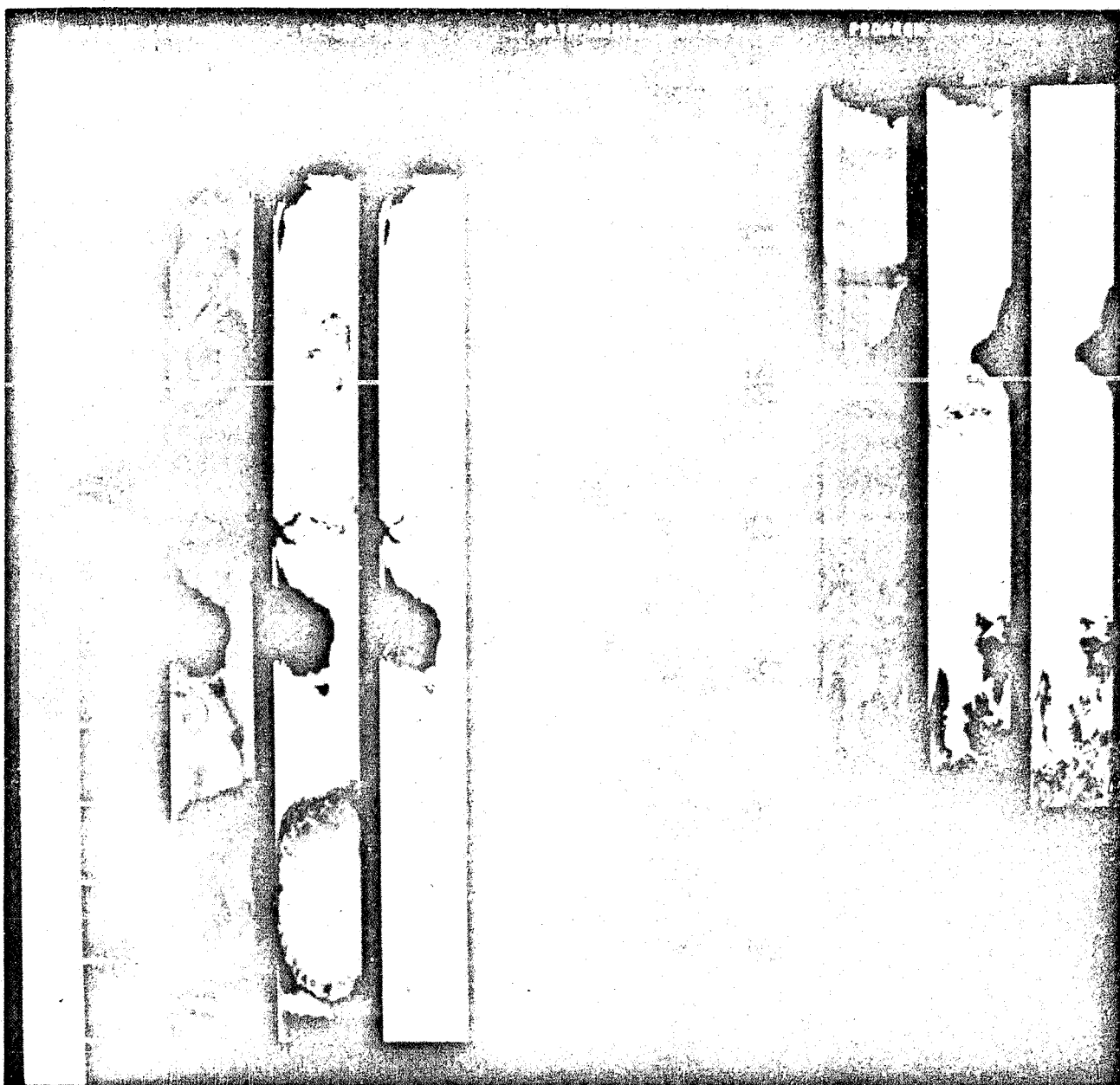




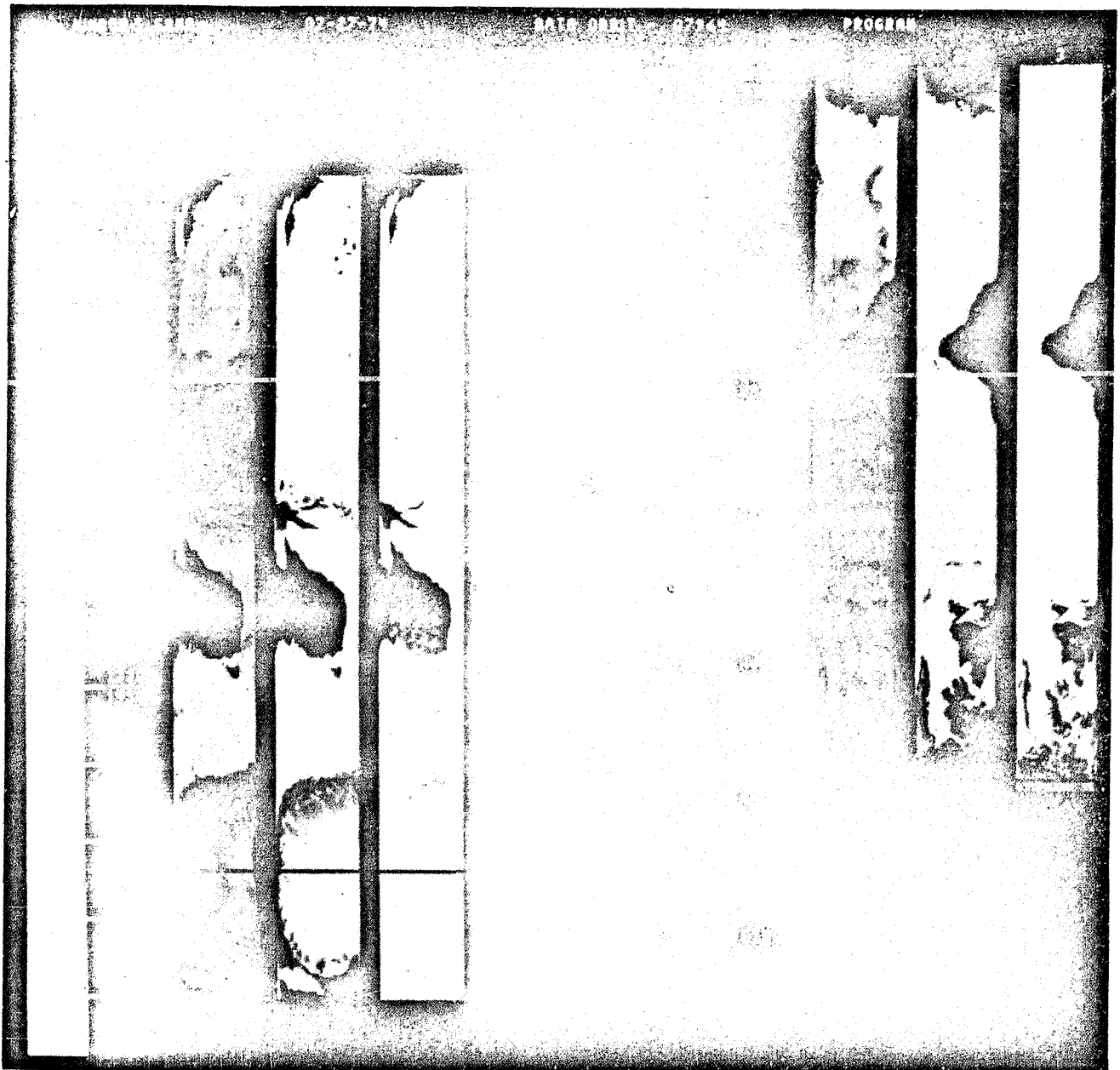


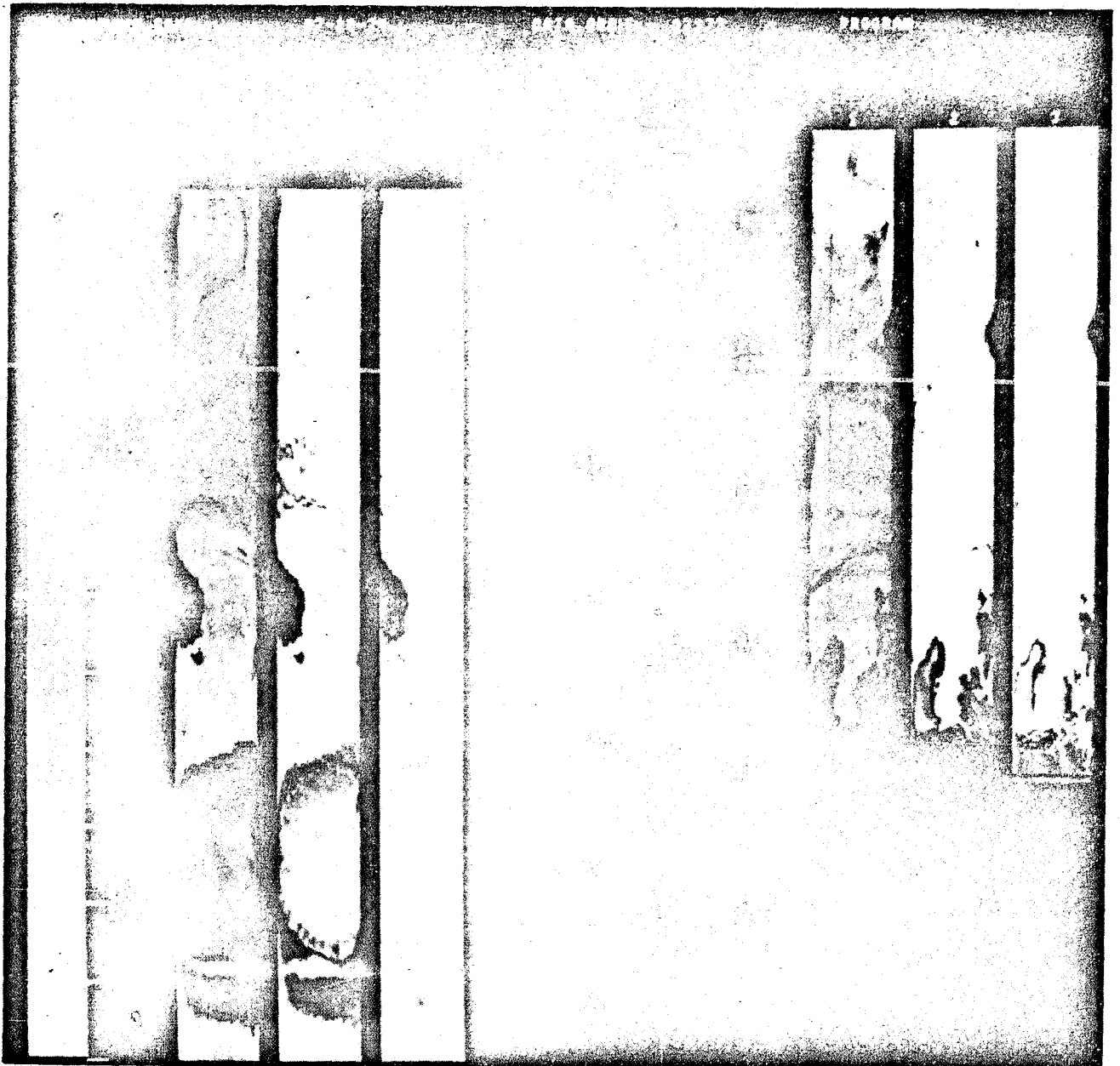


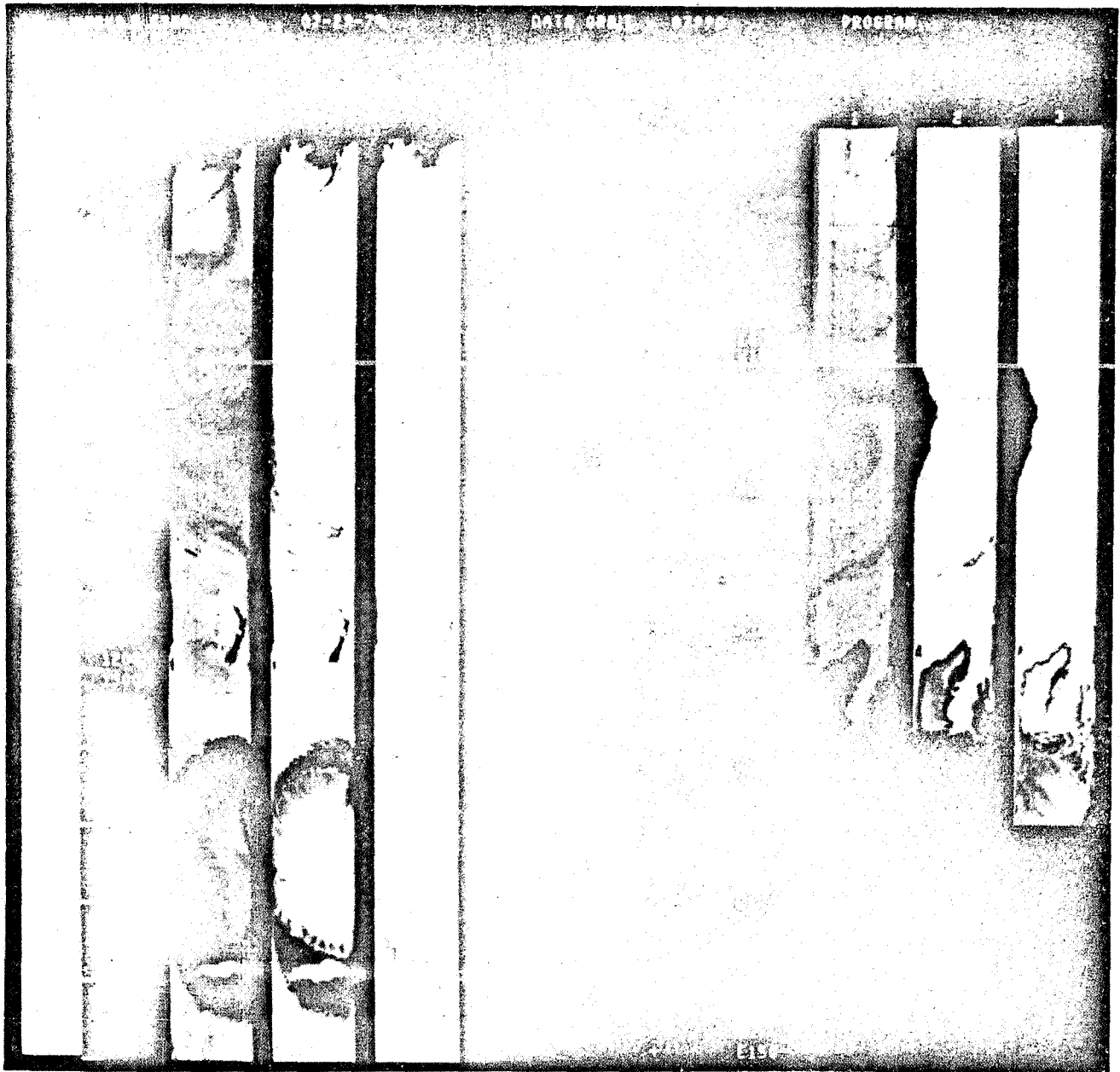


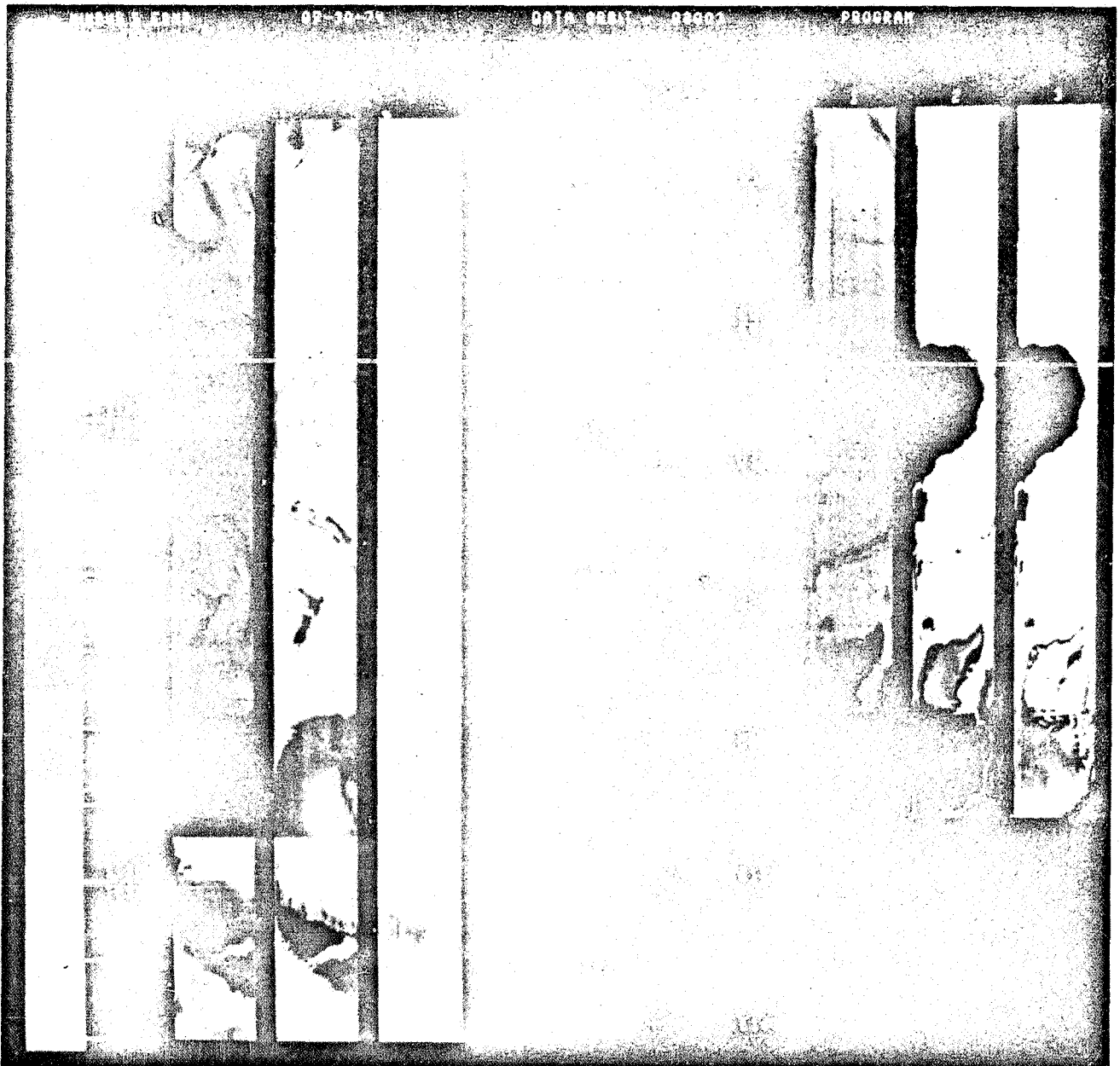


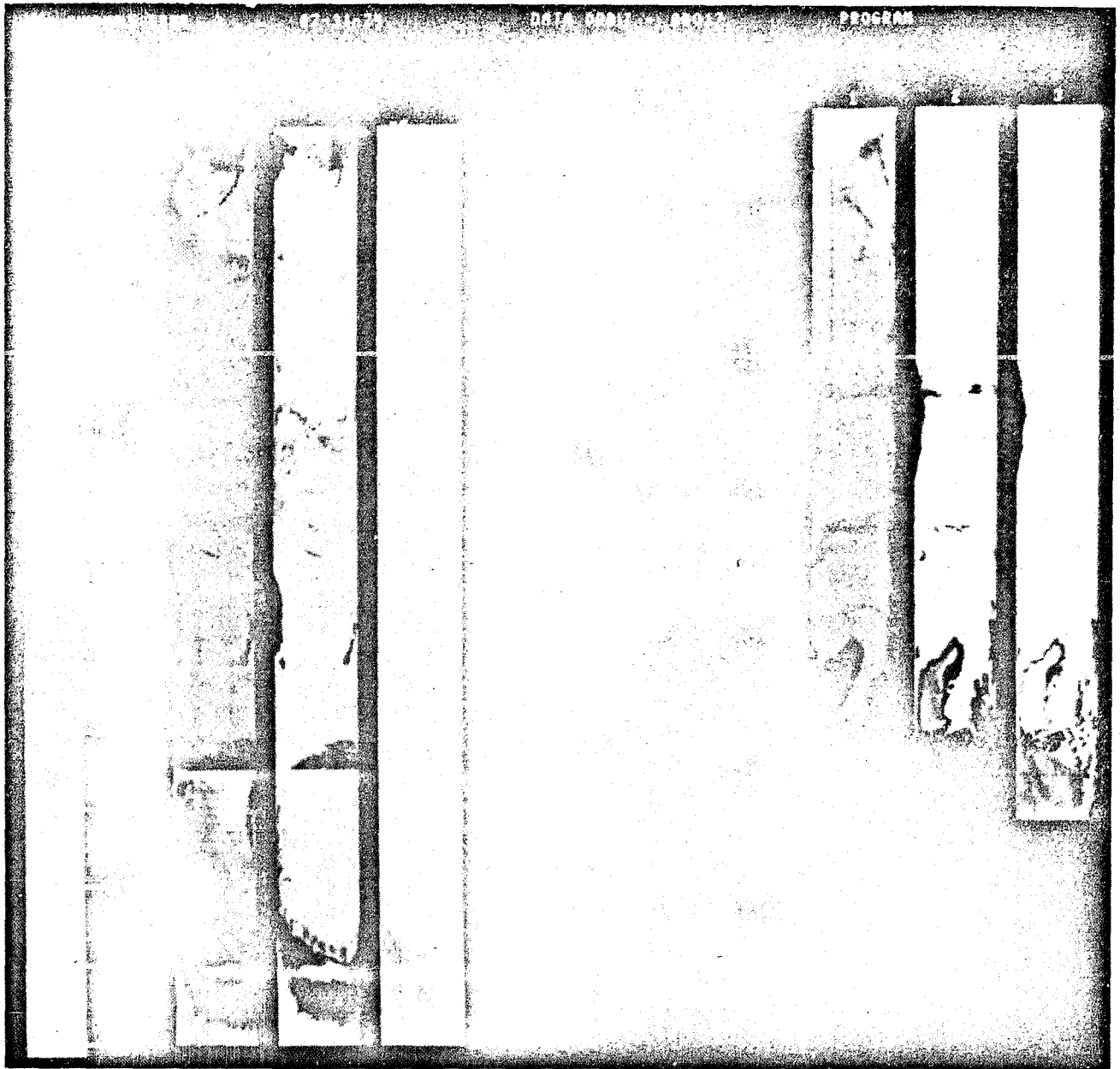












SECTION 4

TEMPERATURE HUMIDITY INFRARED RADIOMETER MONTAGES

This section pictorially documents the data from the Temperature Humidity Infrared Radiometer subsystem carried on the Nimbus 5 Meteorological Satellite. Section 4.1 contains all nighttime THIR 11.5 and 6.7 micrometer montages and Section 4.2 contains all daytime THIR 11.5 and 6.7 micrometer montages, arranged in chronological order. Key latitudes can be read from the superposed grids. Grid points are identified where each swath crosses 60°N, 30°N, EQUATOR, 30°S, and 60°S.

Vellum Location Guide overlays, attached to the back of this document, may be used for general orientation with the data presented in each THIR montage. Proper alignment of the overlay grid is accomplished by matching the grid indices on the equator with the two "T" marks on each montage.

Each THIR montage is provided with a time scale to determine the Greenwich Mean Time limits required to order processed THIR grid print maps (see page 38, The Nimbus 5 User's Guide). The time scale is used to determine the number of minutes from ascending (daytime data) or descending (nighttime data) node time for the interval of data required. To obtain the GMT for daytime data, the measured time is to be added to the ascending node time in the northern hemisphere and subtracted from the southern hemisphere. For nighttime data, the measured time is to be subtracted from the descending node time in the northern hemisphere and added in the southern hemisphere. The ascending and descending node times are given in Table 2-2 of Section 2.

The following alternate procedure also establishes GMT limits. Knowing the latitude limits of the study area, the minutes from ascending or descending node can be directly interpolated from Table 4-1. These time values can then be added to or subtracted from node times given in Table 2-2 of Section 2.

A description of the THIR experiment and instructions for ordering THIR data may be found in The Nimbus 5 User's Guide, Section 2.

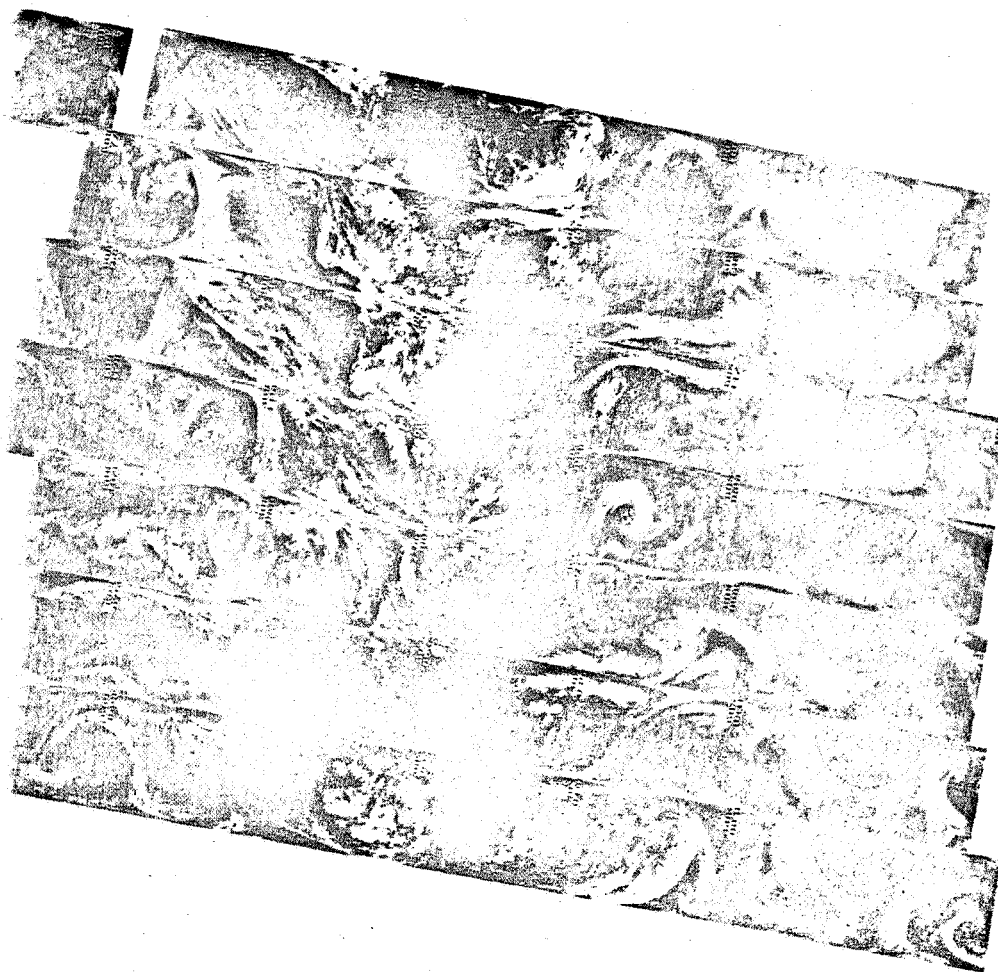
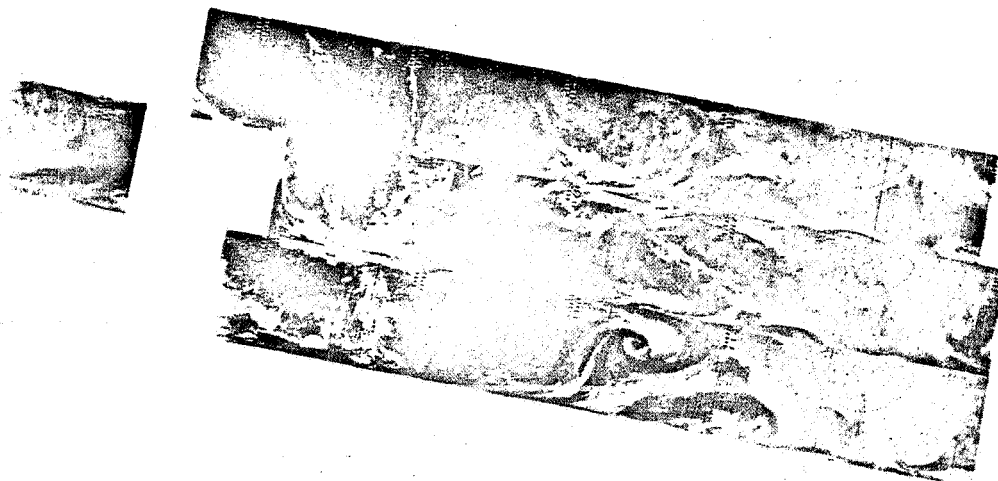
Table 4-1

**Latitude Versus Minutes From
Ascending or Descending Node**

Latitude from AN or DN	Minutes and Seconds from AN or DN
0	0:00
5	1:31
10	3:02
15	4:33
20	6:03
25	7:34
30	9:05
35	10:36
40	12:08
45	13:40
50	15:12
55	16:44
60	18:18
65	19:52
70	21:33
75	23:26
78	24:44
80.1	26:49
78	29:00
75	30:09
70	31:51
65	33:35

SECTION 4.1
TEMPERATURE HUMIDITY INFRARED RADIOMETER
NIGHTTIME MONTAGES

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

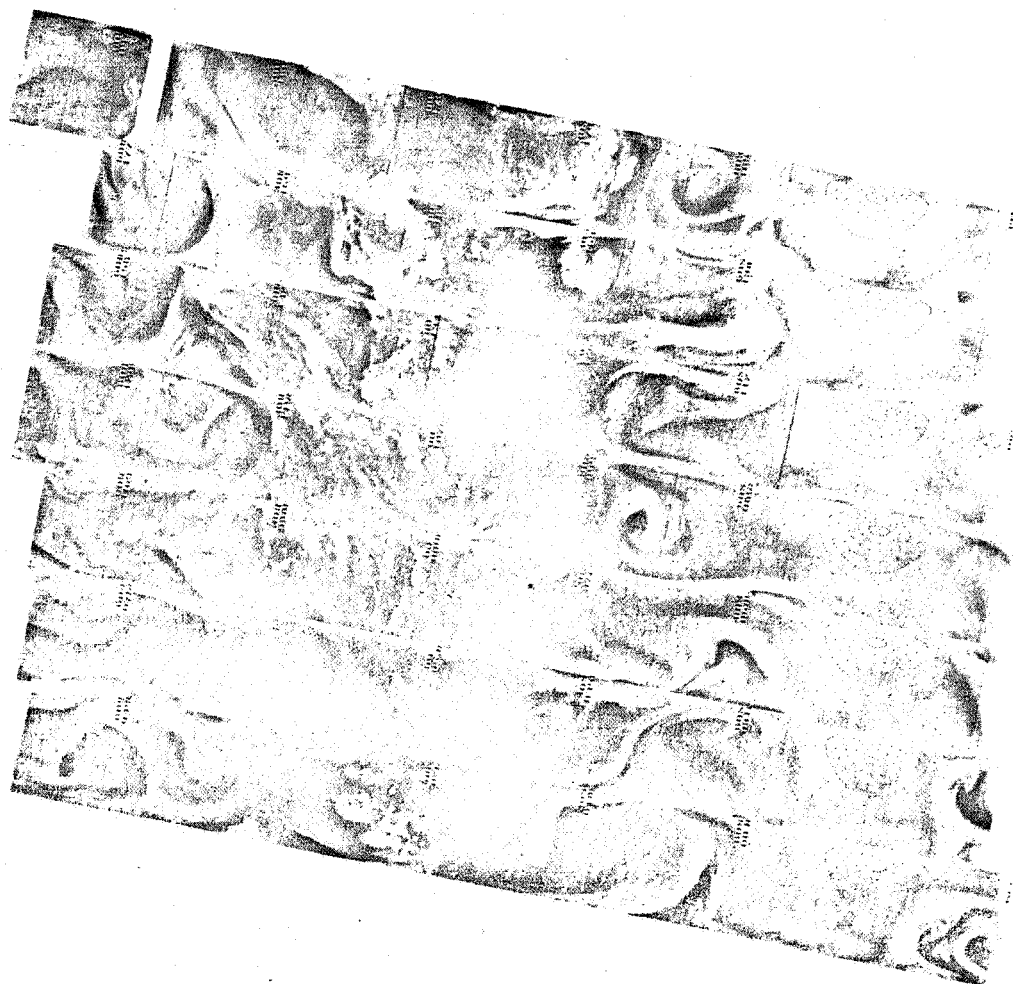
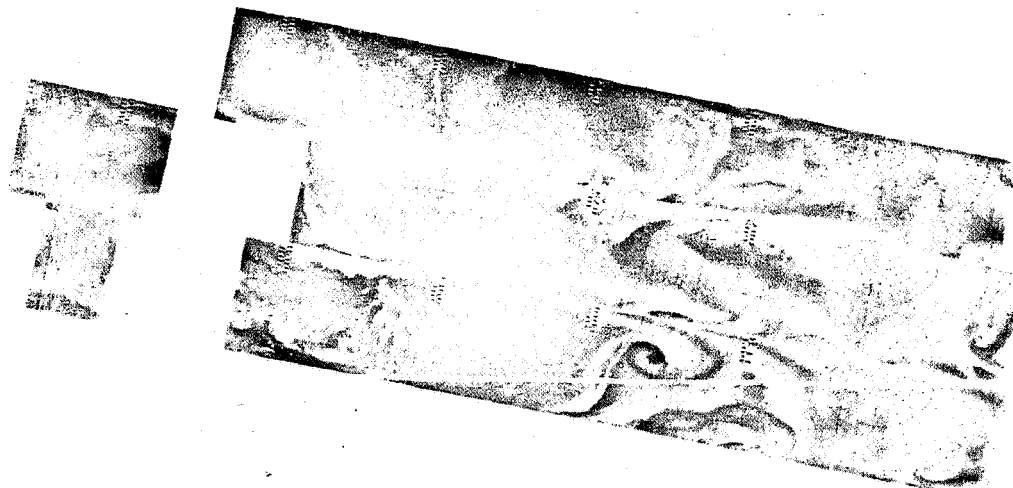


7217 7216 7215 7214 7213 7212 7211 7210 7209 7208 7207 7206 7205

1 JUNE 1974
11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7217 7216 7215 7214 7213 7212 7211 7210 7209 7208 7207 7206 7205

1 JUNE 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7231 7230 7229 7228 7227 7226 7225 7224 7223 7222 7221 7220 7219 7218

2 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7231 7230 7229 7228 7227 7226 7225 7224 7223 7222 7221 7220 7219 7218

2 JUNE 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



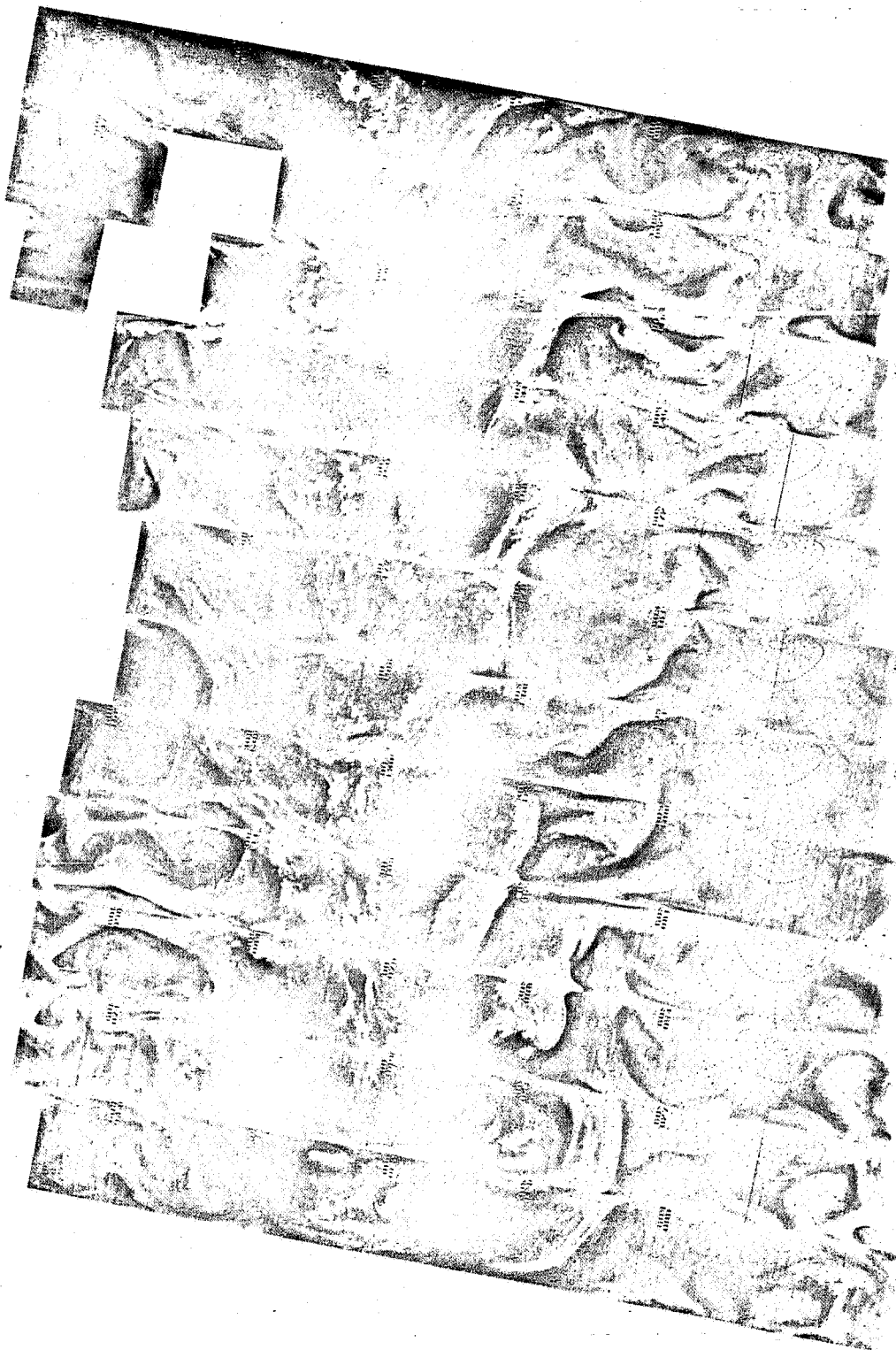
7244 7243 7242 7241 7240 7239 7238 7237 7236 7235 7234 7233 7232

3 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7244 7243 7242 7241 7240 7239 7238 7237 7236 7235 7234 7233 7232

3 JUNE 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7257 7256 7255 7254 7253 7252 7251 7250 7249 7248 7247 7246 7245

4 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7258 7257 7256 7255 7254 7253 7252 7251 7250 7249 7248 7247 7246 7245

4 JUNE 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7271 7270 7269 7268 7267 7266 7265 7264 7263 7262 7261 7260 7259

5 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7271 7270 7269 7268 7267 7266 7265 7264 7263 7262 7261 7260 7259

5 JUNE 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7284 7283 7282 7281 7280 7279 7278 7277 7276 7275 7274 7273 7272

6 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7284 7283 7282 7281 7280 7279 7278 7277 7276 7275 7274 7273 7272

6 JUNE 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7298 7297 7296 7295 7294 7293 7292 7291 7290 7289 7288 7287 7286 7285

7 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7298 7297 7296 7295 7294 7293 7292 7291 7290 7289 7288 7287 7286 7285

7 JUNE 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



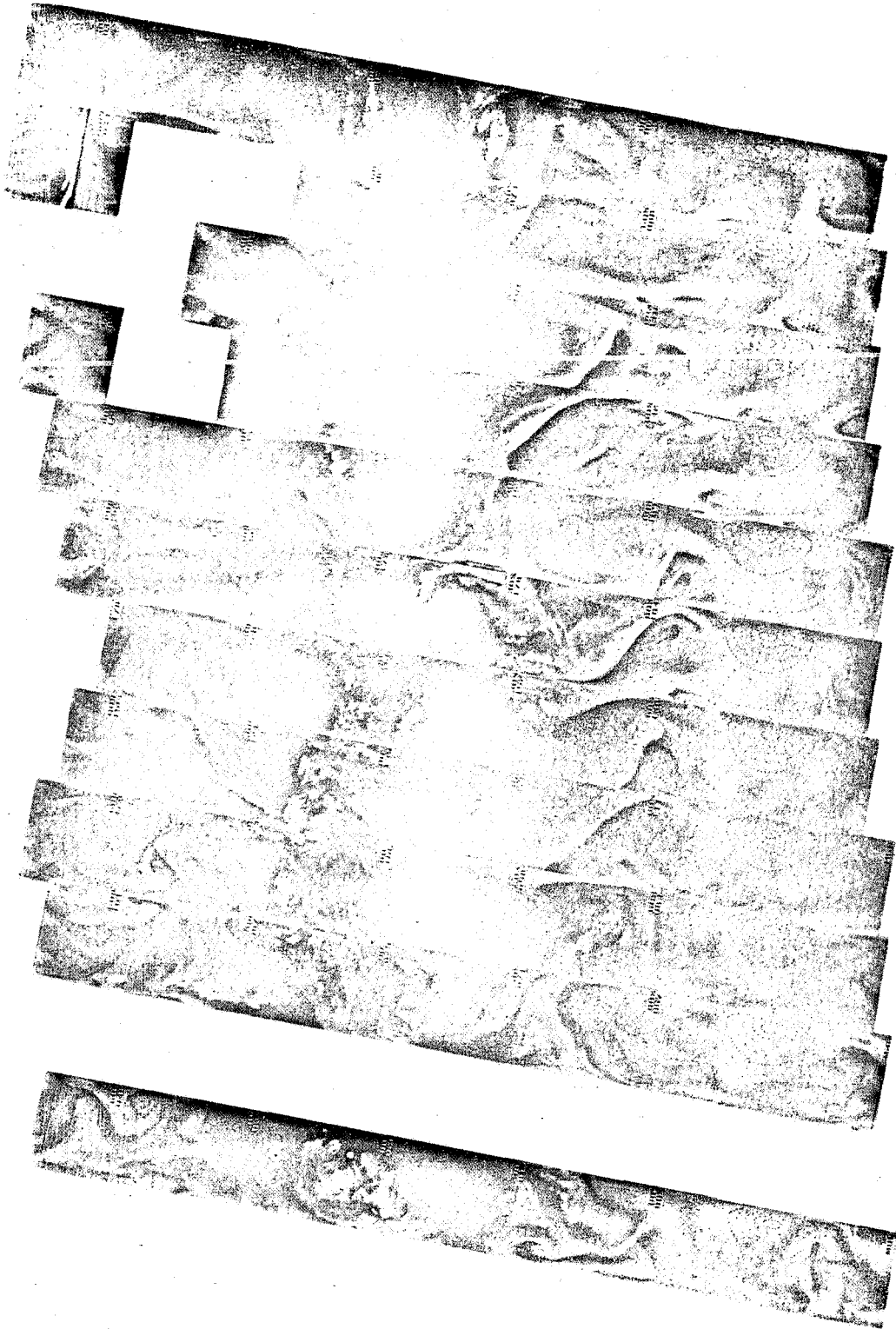
7311 7310 7309 7308 7307 7306 7305 7304 7303 7302 7301 7300 7299

8 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7311 7310 7309 7308 7307 7306 7305 7304 7303 7302 7301 7300 7299

8 JUNE 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7325 7324 7323 7322 7321 7320 7319 7318 7317 7316 7315 7314 7313 7312

9 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

40 38 36 34 32 30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



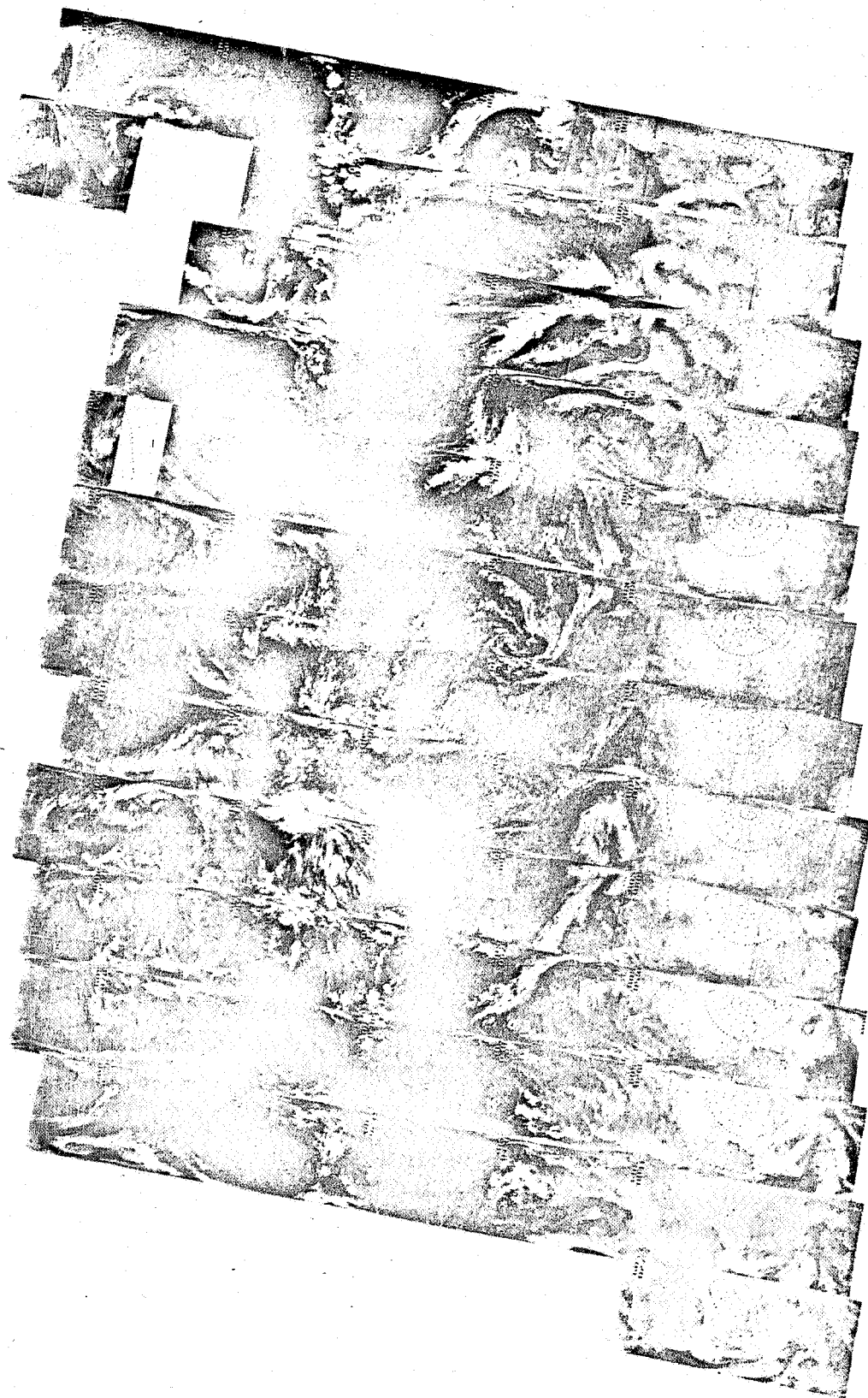
7325 7324 7323 7322 7321 7320 7319 7318 7317 7316 7315 7314 7313 7312

9 JUNE 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7338 7337 7336 7335 7334 7333 7332 7331 7330 7329 7328 7327 7326

10 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7338 7337 7336 7335 7334 7333 7332 7331 7330 7329 7328 7327 7326

10 JUNE 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7352 7351 7350 7349 7348 7347 7346 7345 7344 7343 7342 7341 7340 7339

11 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7352 7351 7350 7349 7348 7347 7346 7345 7344 7343 7342 7341 7340 7339
11 JUNE 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



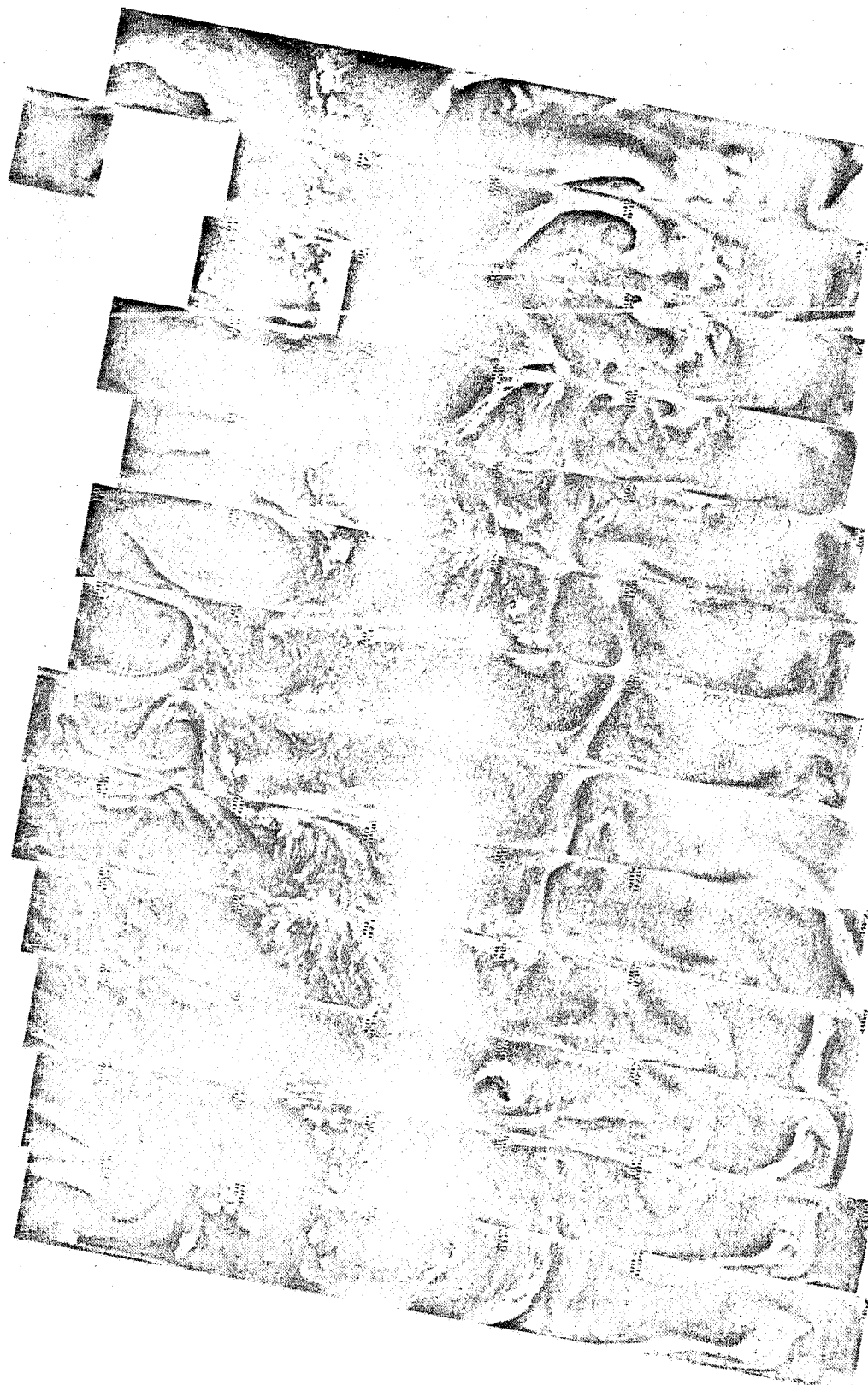
7365 7364 7363 7362 7361 7360 7359 7358 7357 7356 7355 7354 7353

12 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min



7365 7364 7363 7362 7361 7360 7359 7358 7357 7356 7355 7354 7353

12 JUNE 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7378 7377 7376 7375 7374 7373 7372 7371 7370 7369 7368 7367 7366

13 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7378 7377 7376 7375 7374 7373 7372 7371 7370 7369 7368 7367 7366

13 JUNE 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7392 7391 7390 7389 7388 7387 7386 7385 7384 7383 7382 7381 7380 7379

14 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7392 7391 7390 7389 7388 7387 7386 7385 7384 7383 7382 7381 7380 7379

14 JUNE 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7405 7404 7403 7402 7401 7400 7399 7398 7397 7396 7395 7394 7393

15 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7405 7404 7403 7402 7401 7400 7399 7398 7397 7396 7395 7394 7393

15 JUNE 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7419 7418 7417 7416 7415 7414 7413 7412 7411 7410 7409 7408 7407 7406

16 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7419 7418 7417 7416 7415 7414 7413 7412 7411 7410 7409 7408 7407 7406

16 JUNE 1974

6.7 μ m

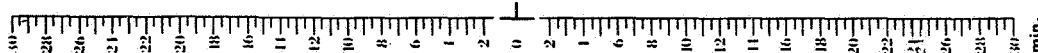
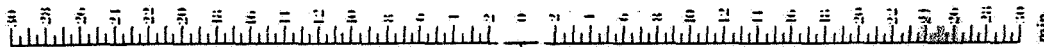
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7432 7431 7430 7429 7428 7427 7426 7425 7424 7423 7422 7421 7420
17 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7432 7431 7430 7429 7428 7427 7426 7425 7424 7423 7422 7421 7420

17 JUNE 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7445 7444 7443 7442 7441 7440 7439 7438 7437 7436 7435 7434 7433

18 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7445 7444 7443 7442 7441 7440 7439 7438 7437 7436 7435 7434 7433

18 JUNE 1974

7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7459 7458 7457 7456 7455 7454 7453 7452 7451 7450 7449 7448 7447 7446

19 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7459 7458 7457 7456 7455 7454 7453 7452 7451 7450 7449 7448 7447 7446

19 JUNE 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



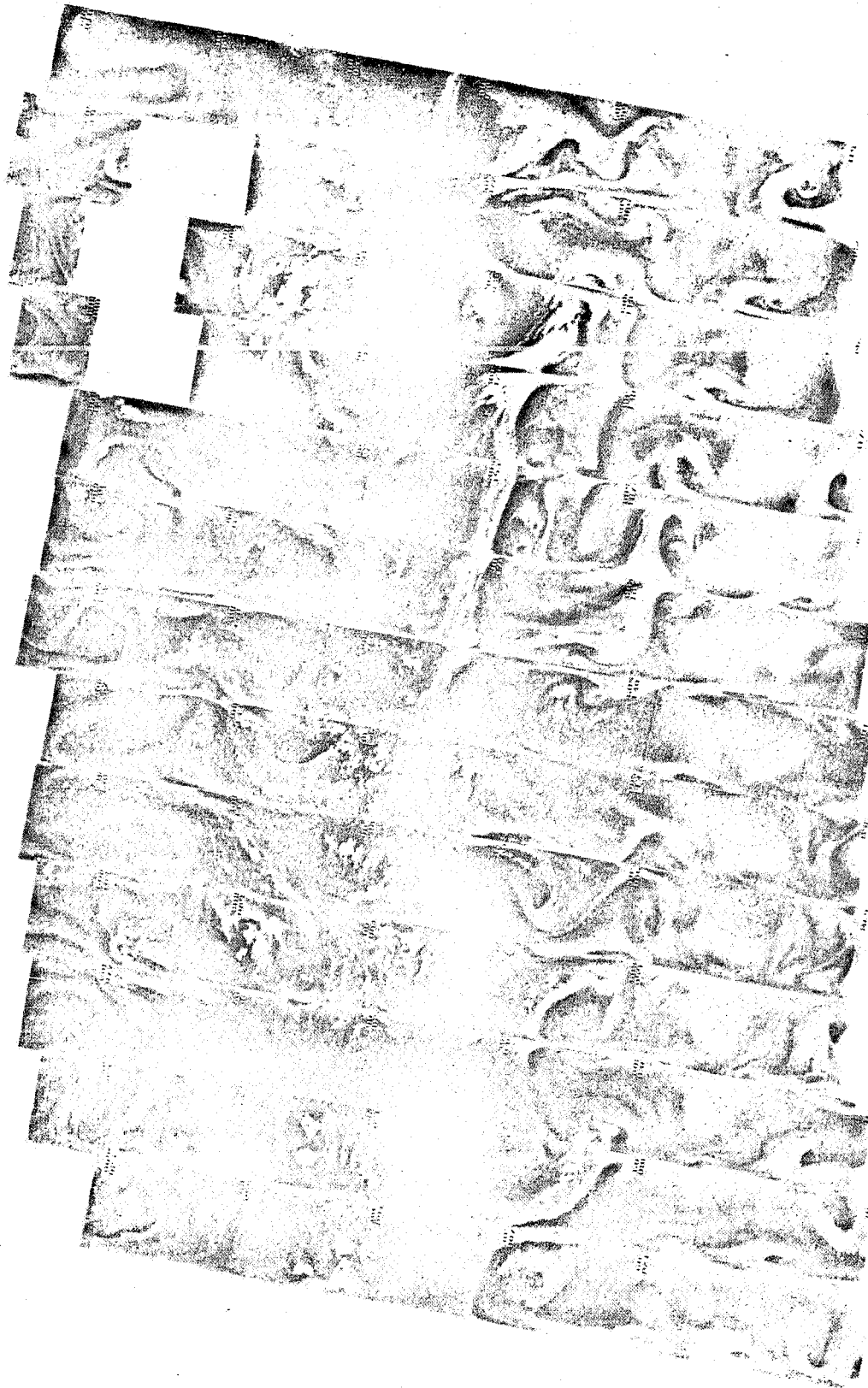
7472 7471 7470 7469 7468 7467 7466 7465 7464 7463 7462 7461 7460

20 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7472 7471 7470 7469 7468 7467 7466 7465 7464 7463 7462 7461 7460

20 JUNE 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7486 7485 7484 7483 7482 7481 7480 7479 7478 7477 7476 7475 7474 7473

21 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7486 7485 7484 7483 7482 7481 7480 7479 7478 7477 7476 7475 7474 7473

21 JUNE 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7499 7498 7497 7496 7495 7494 7493 7492 7491 7490 7489 7488 7487

22 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7499 7498 7497 7496 7495 7494 7493 7492 7491 7490 7489 7488 7487

22 JUNE 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



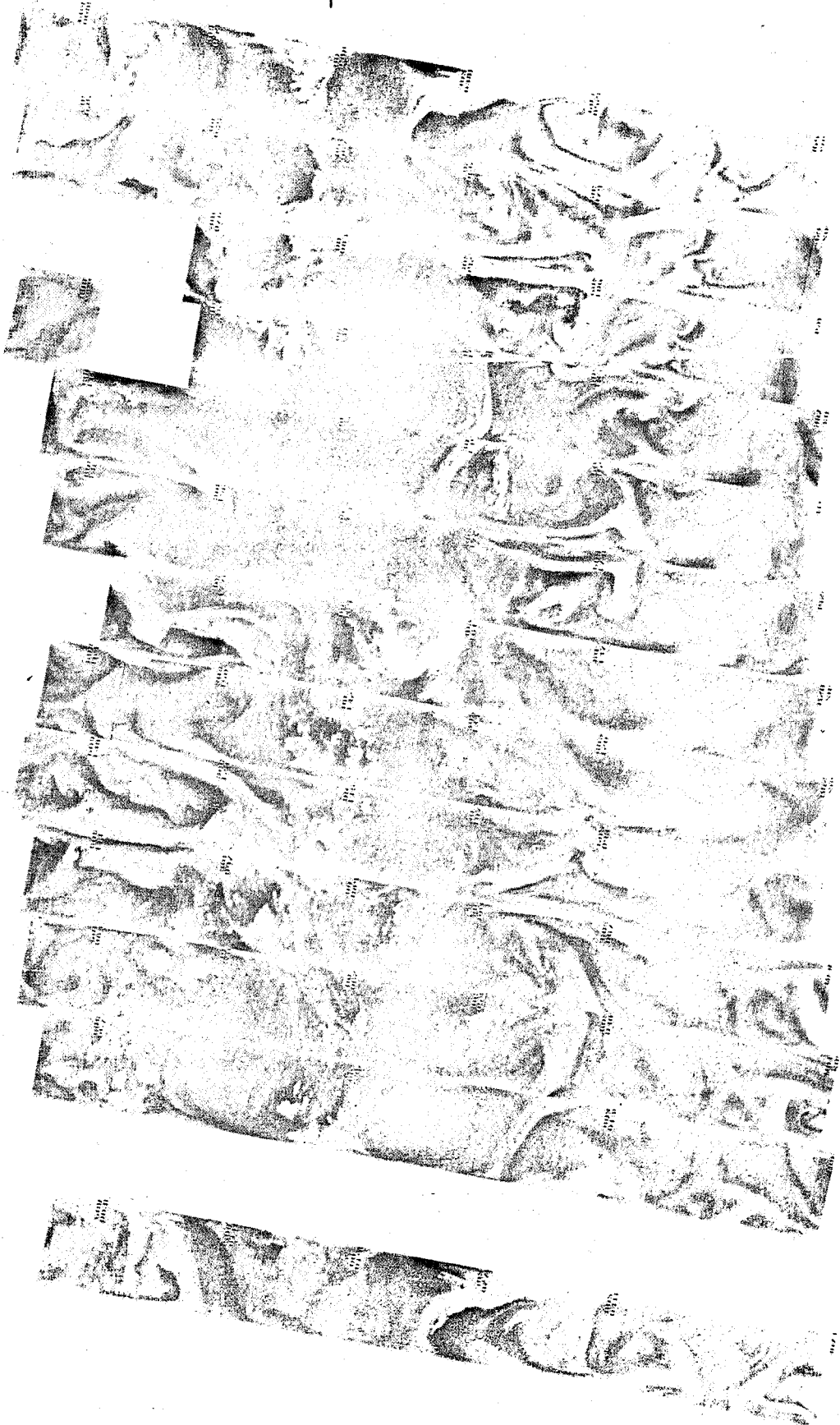
7513 7512 7511 7510 7509 7508 7507 7506 7505 7504 7503 7502 7501 7500

23 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

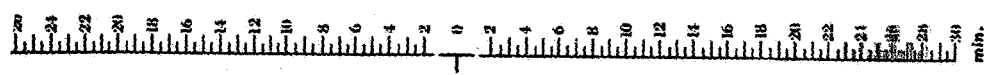
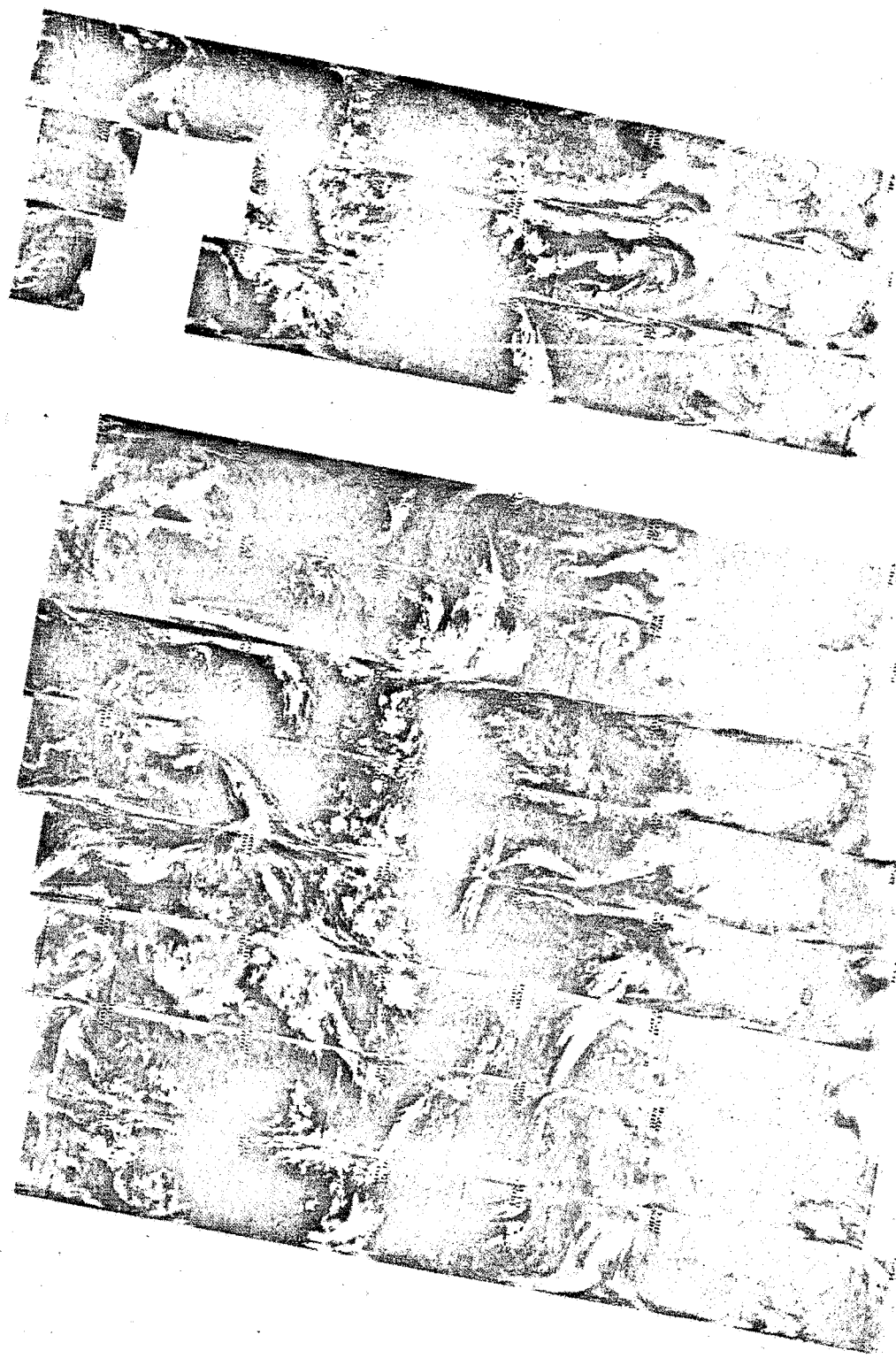
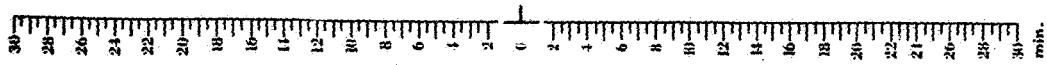


30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7513 7512 7511 7510 7509 7508 7507 7506 7505 7504 7503 7502 7501 7500

23 JUNE 1974

6.7 μ m



7526 7525 7524 7523 7522 7521 7520 7519 7518 7517 7516 7515 7514

24 JUNE 1974

11.5 μ m

40 38 36 34 32 30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7526 7525 7524 7523 7522 7521 7520 7519 7518 7517 7516 7515 7514

24 JUNE 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7539 7538 7537 7536 7535 7534 7533 7532 7531 7530 7529 7528 7527

25 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7539 7538 7537 7536 7535 7534 7533 7532 7531 7530 7529 7528 7527

25 JUNE 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7553 7552 7551 7550 7549 7548 7547 7546 7545 7544 7543 7542 7541 7540

26 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7553 7552 7551 7550 7549 7548 7547 7546 7545 7544 7543 7542 7541 7540

26 JUNE 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



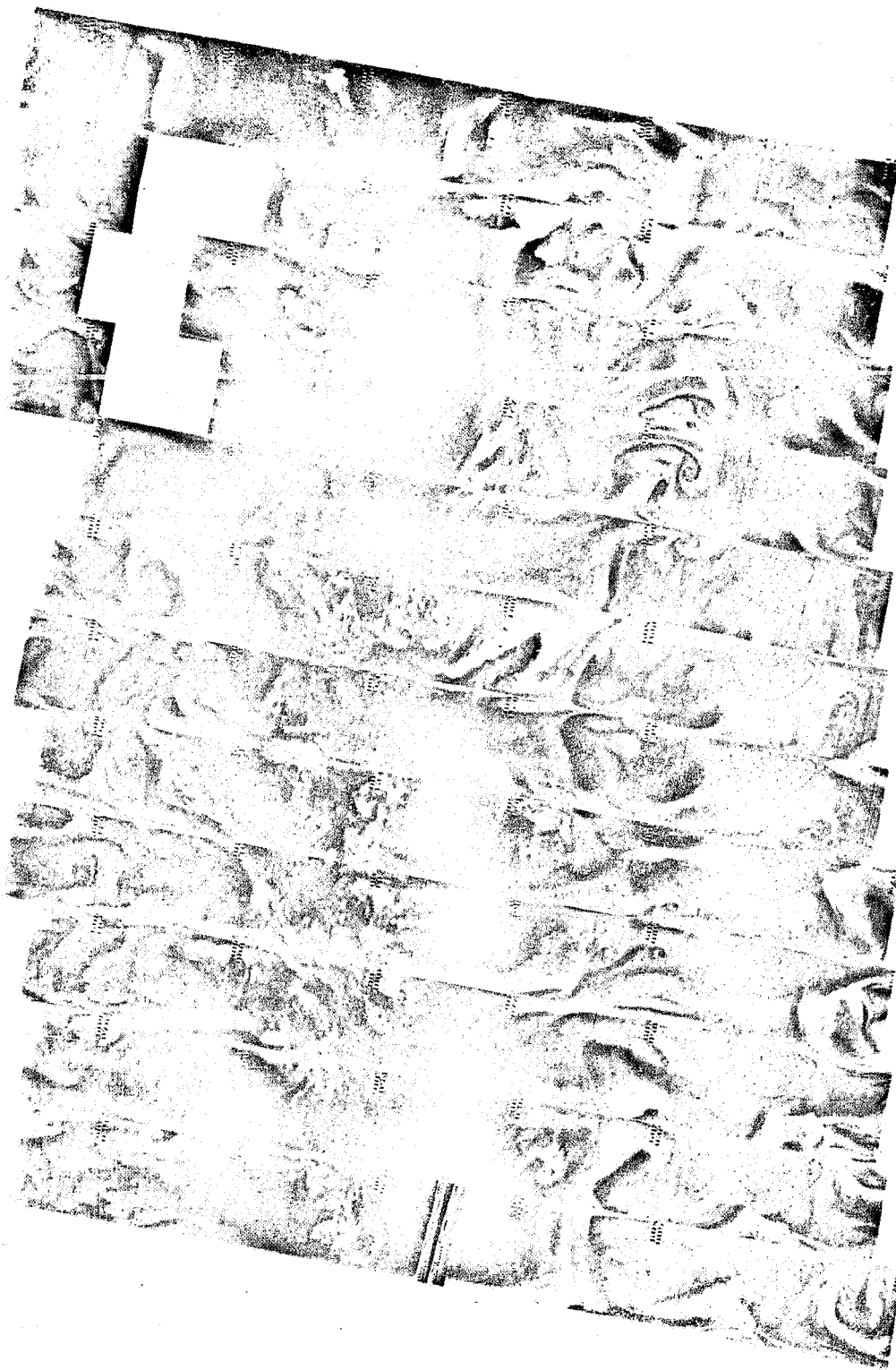
7566 7565 7564 7563 7562 7561 7560 7559 7558 7557 7556 7555 7554

27 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7566 7565 7564 7563 7562 7561 7560 7559 7558 7557 7556 7555 7554

27 JUNE 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7580 7579 7578 7577 7576 7575 7574 7573 7572 7571 7570 7569 7568 7567

28 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



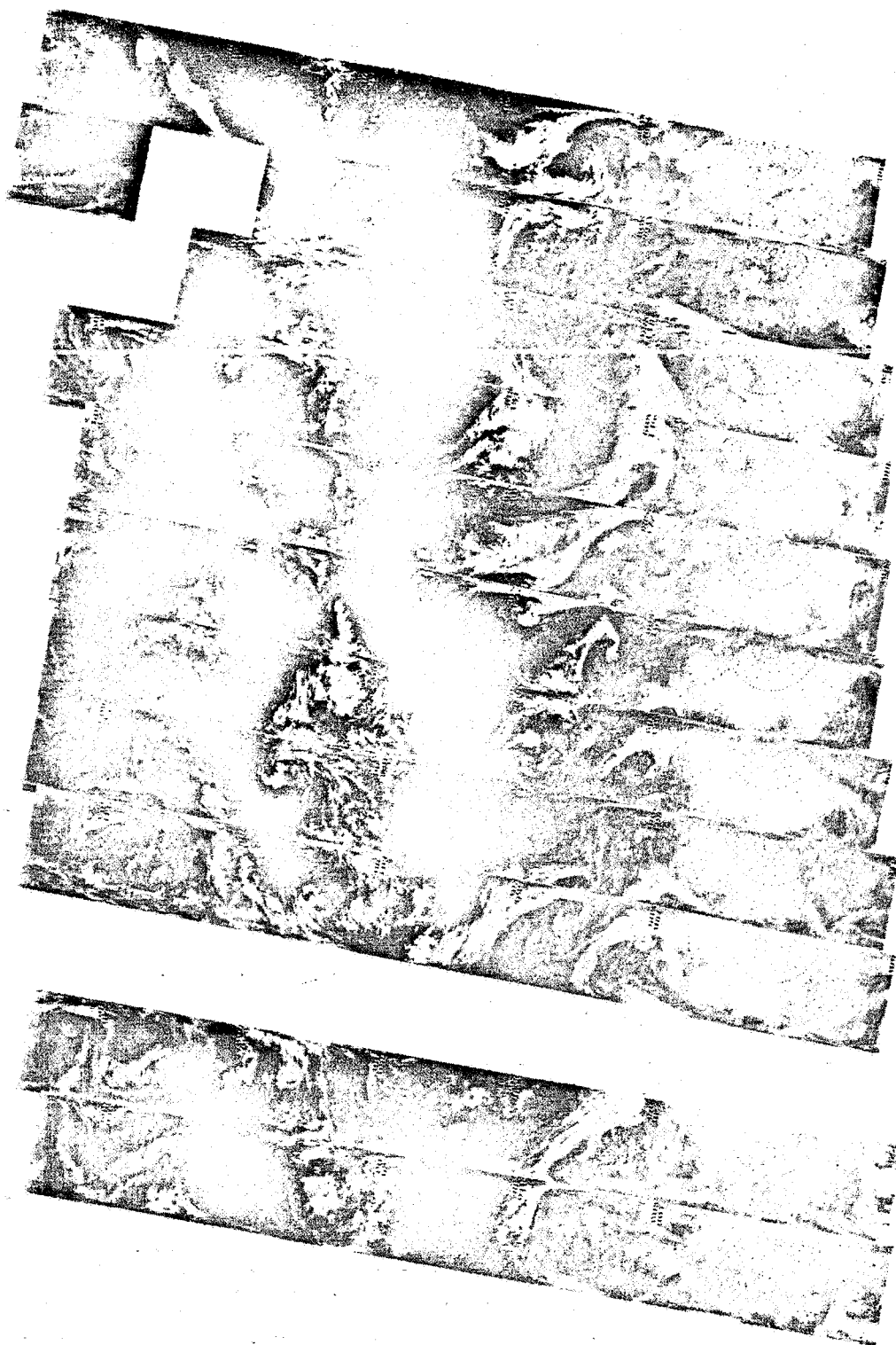
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28 JUNE 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7593 7592 7591 7590 7589 7588 7587 7586 7585 7584 7583 7582 7581

29 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
mils.



7593 7592 7591 7590 7589 7588 7587 7586 7585 7584 7583 7582 7581

29 JUNE 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
mils.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



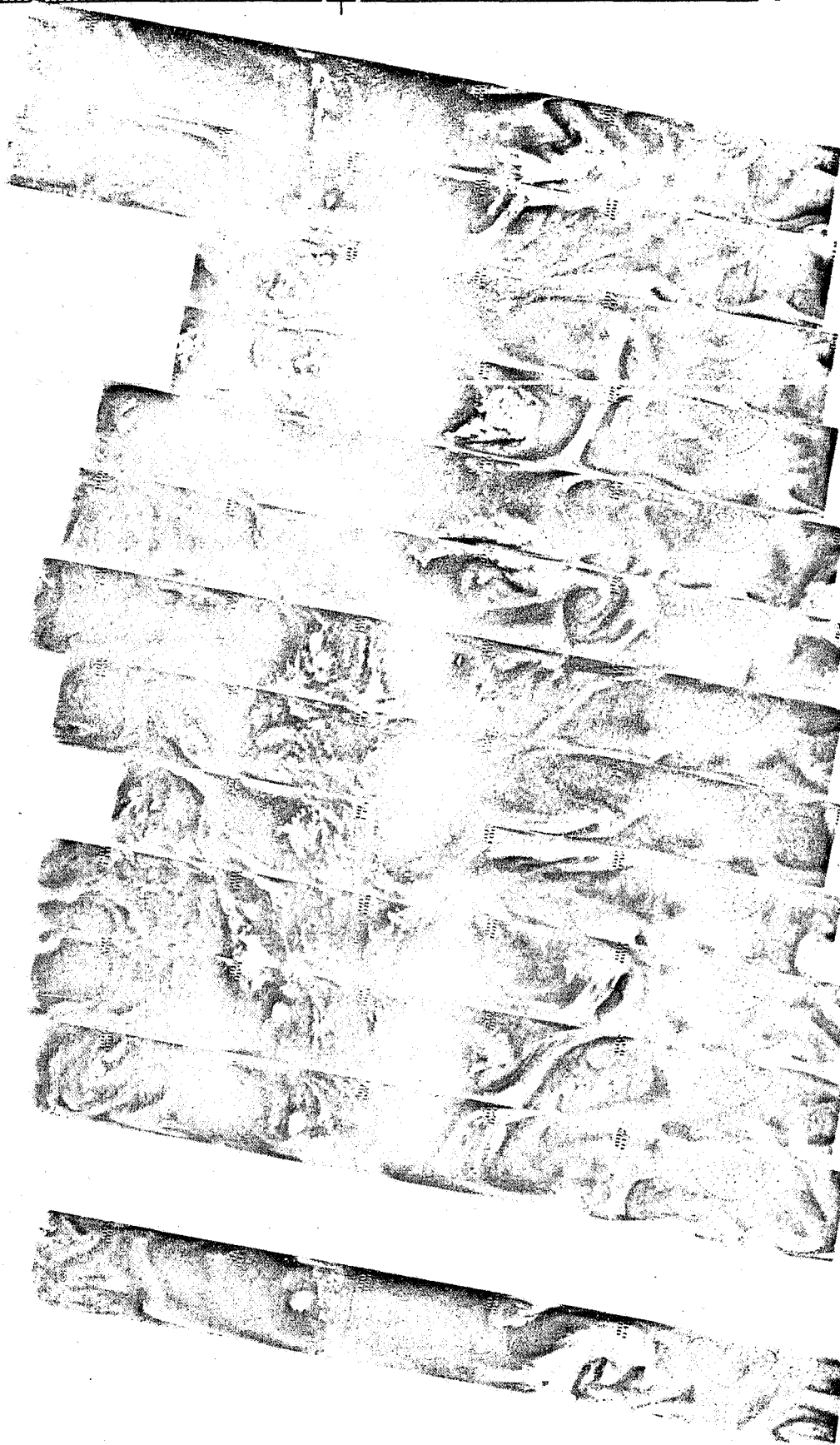
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7607 7606 7605 7604 7603 7602 7601 7600 7599 7598 7597 7596 7595 7594

30 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7607 7606 7605 7604 7603 7602 7601 7600 7599 7598 7597 7596 7595 7594

30 JUNE 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7620 7619 7618 7617 7616 7615 7614 7613 7612 7611 7610 7609 7608

1 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7727 7726 7725 7724 7723 7722 7721 7720 7719 7718 7717 7716 7715

9 JULY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7741 7740 7739 7738 7737 7736 7735 7734 7733 7732 7731 7730 7729 7728

10 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



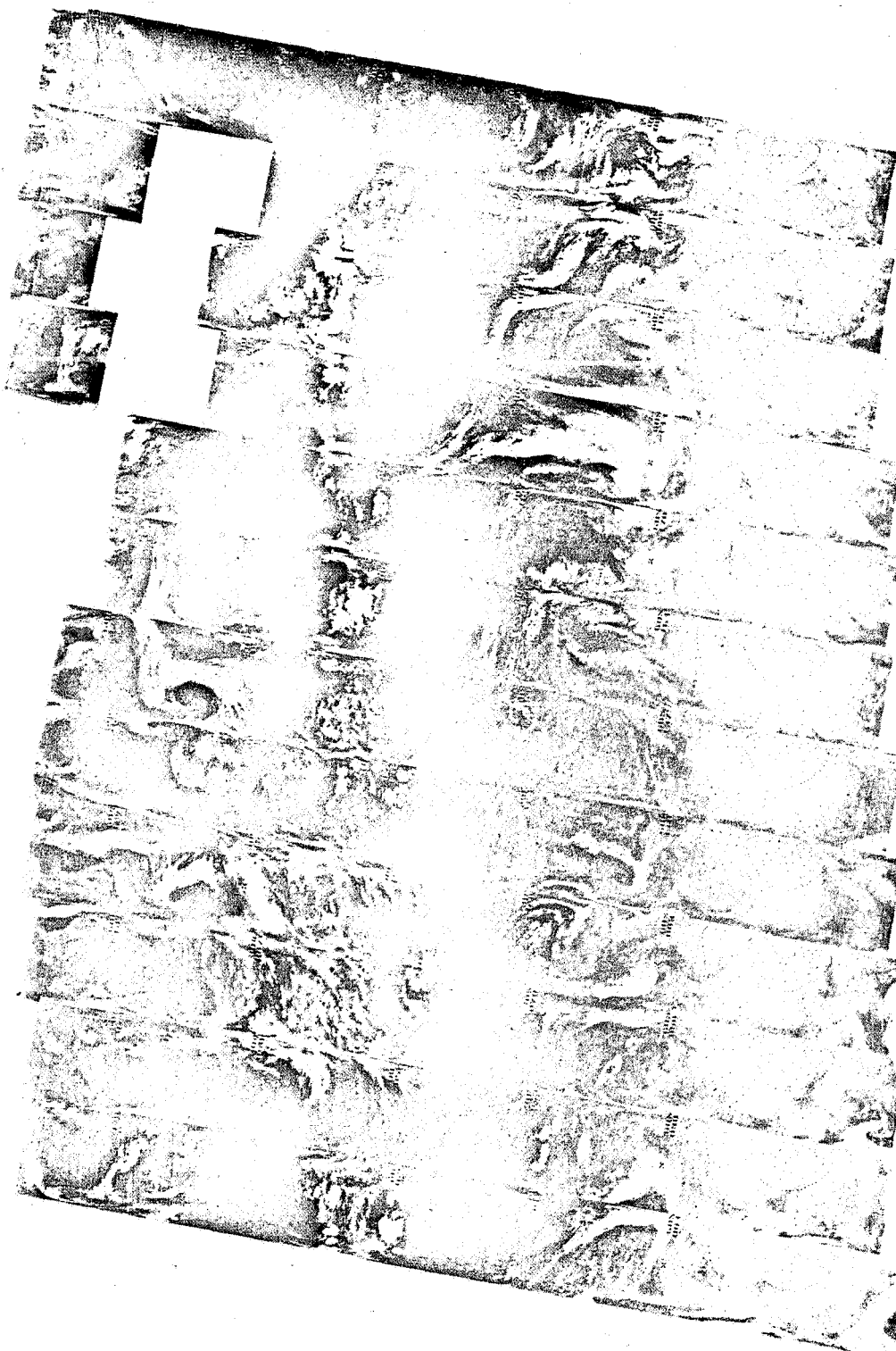
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7741 7740 7739 7738 7737 7736 7735 7734 7733 7732 7731 7730 7729 7728

10 JULY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7754 7753 7752 7751 7750 7749 7748 7747 7746 7745 7744 7743 7742

11 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



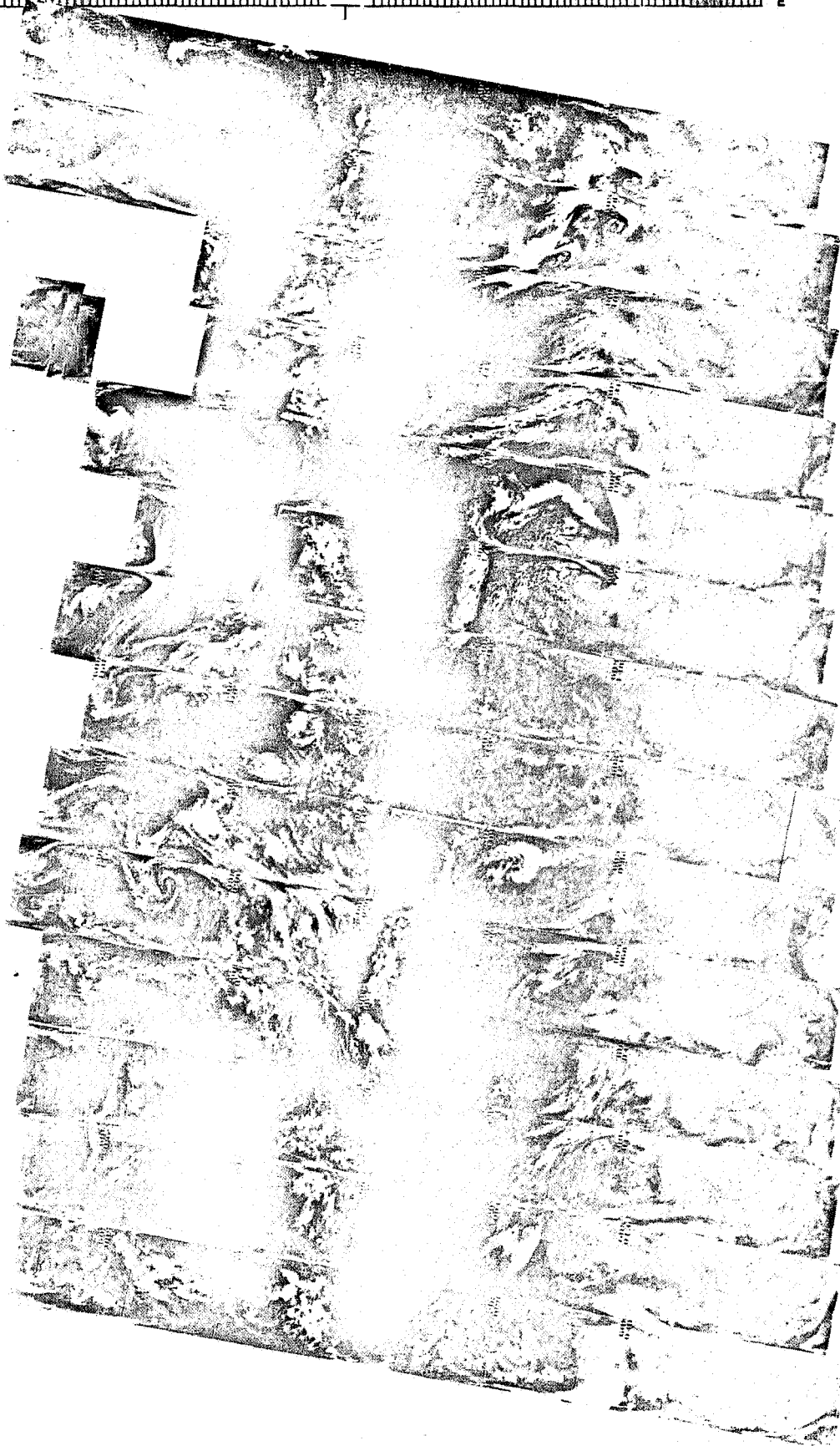
7754 7753 7752 7751 7750 7749 7748 7747 7746 7745 7744 7743 7742

11 JULY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7768 7767 7766 7765 7764 7763 7762 7761 7760 7759 7758 7757 7756 7755

12 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



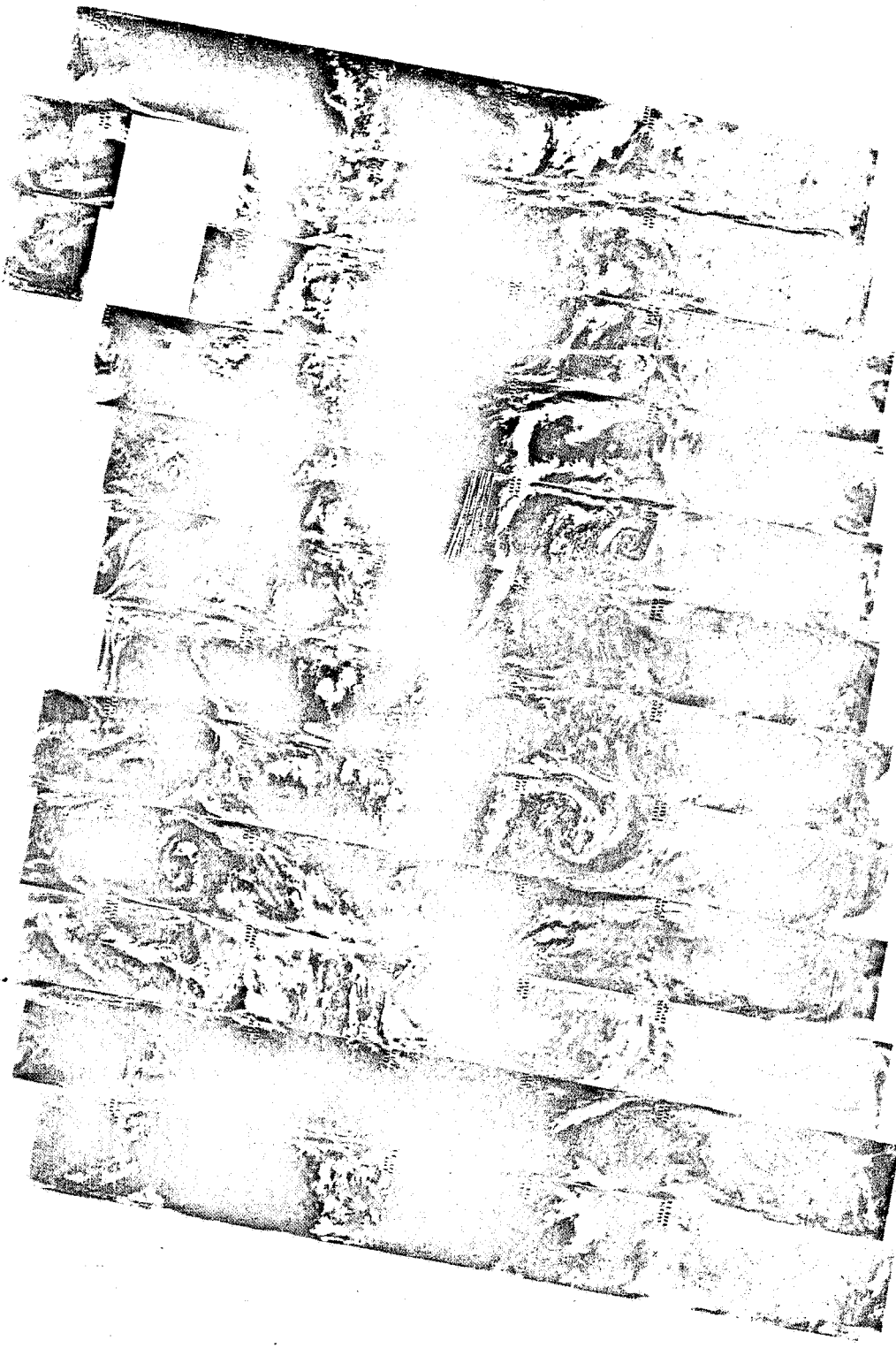
7768 7767 7766 7765 7764 7763 7762 7761 7760 7759 7758 7757 7756 7755

12 JULY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7781 7780 7779 7778 7777 7776 7775 7774 7773 7772 7771 7770 7769

13 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7781 7780 7779 7778 7777 7776 7775 7774 7773 7772 7771 7770 7769

13 JULY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



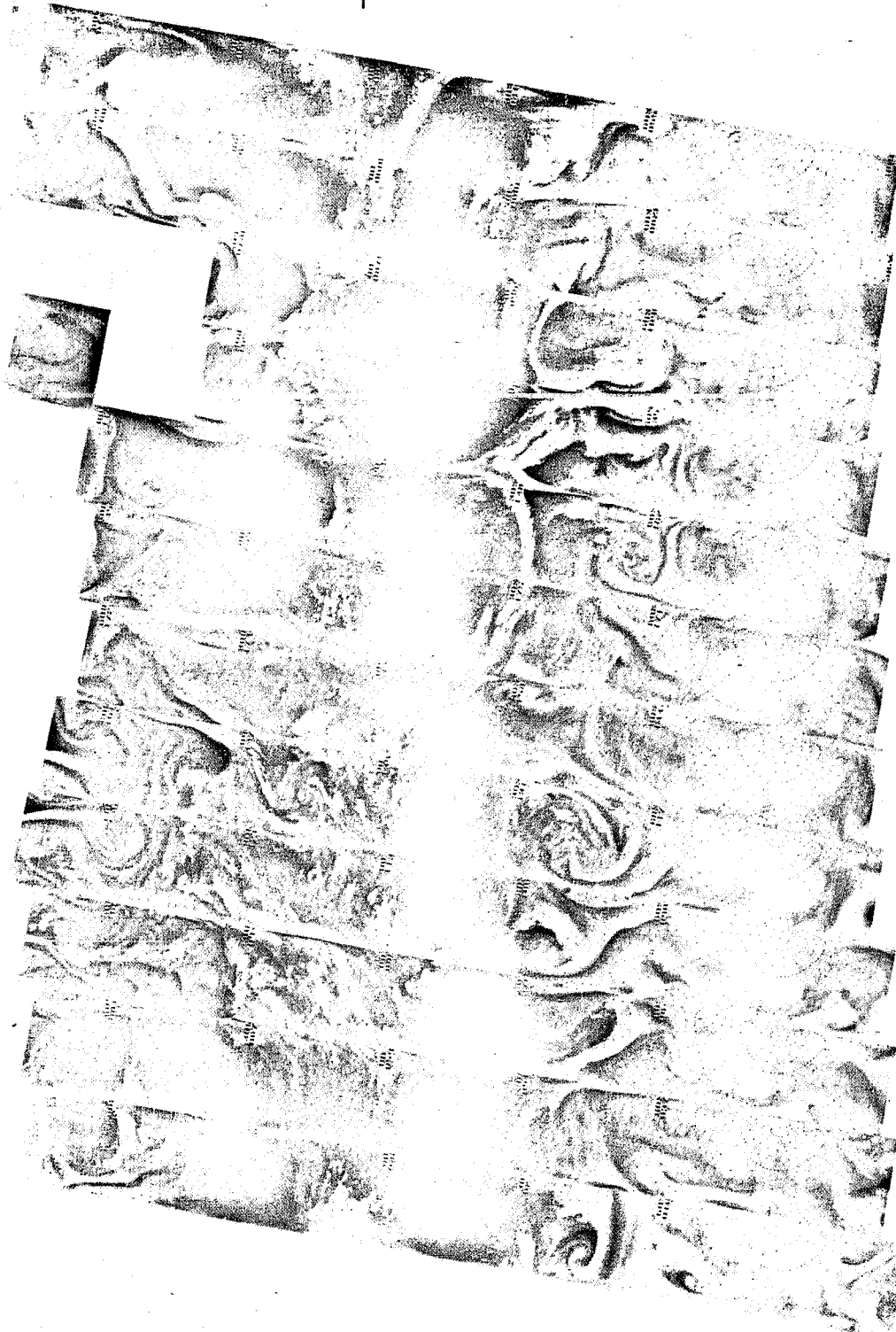
7794 7793 7792 7791 7790 7789 7788 7787 7786 7785 7784 7783 7782

14 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



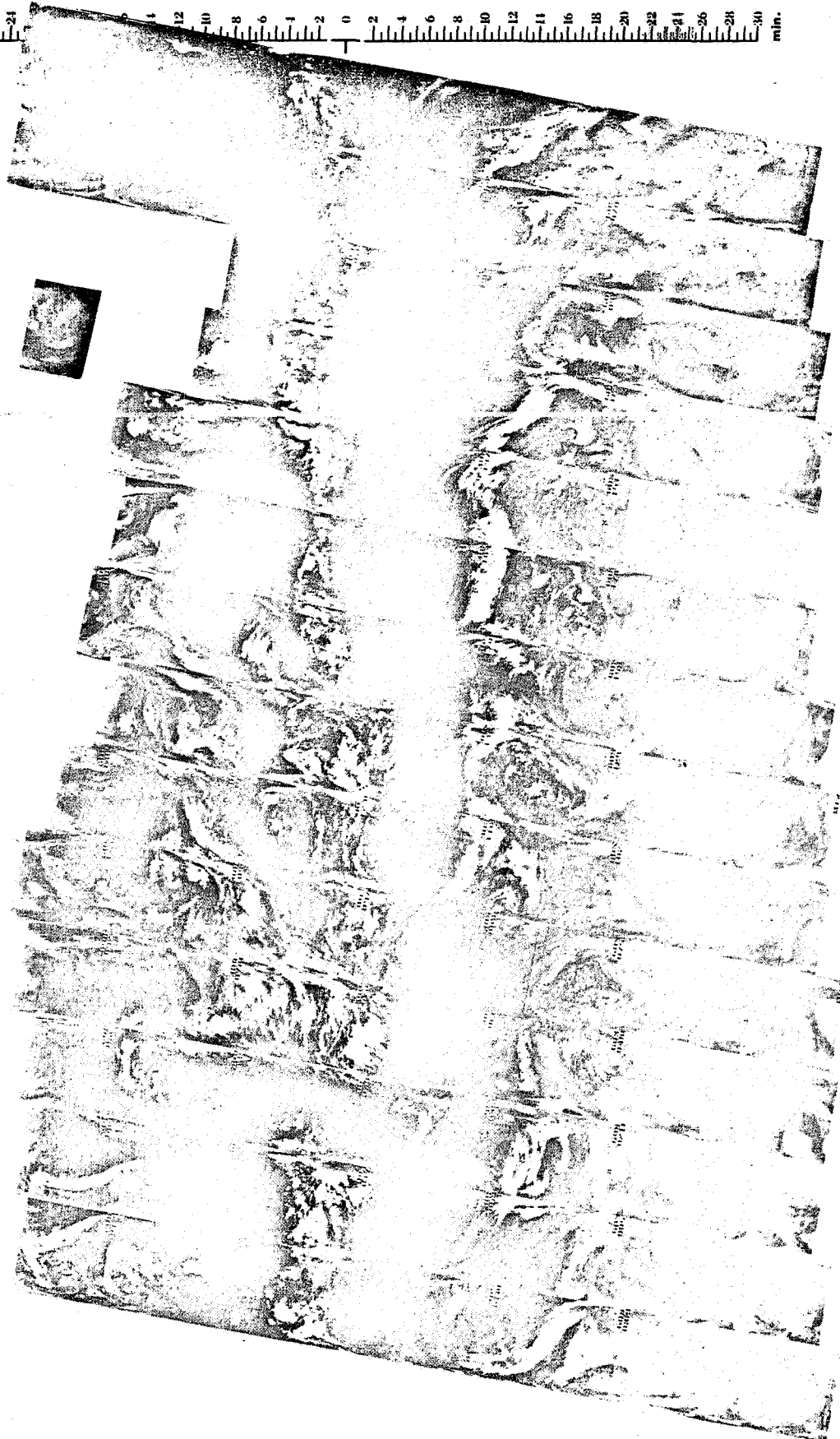
7794 7793 7792 7791 7790 7789 7788 7787 7786 7785 7784 7783 7782

14 JULY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7808 7807 7806 7805 7804 7803 7802 7801 7800 7799 7798 7797 7796 7795

15 JULY 1974

11.5 μ m

30 28 26 24



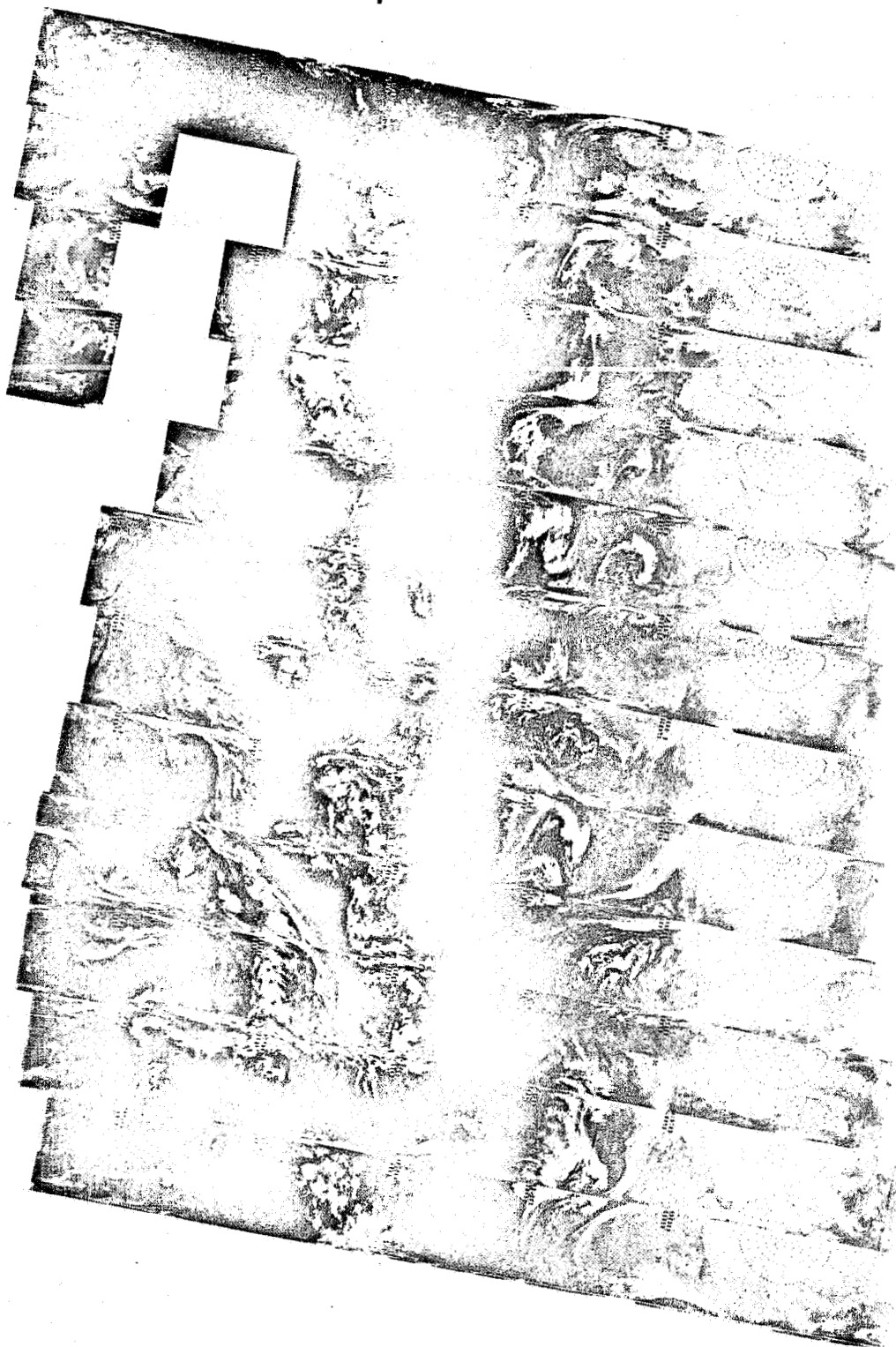
7808 7807 7806 7805 7804 7803 7802 7801 7800 7799 7798 7797 7796 7795

15 JULY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



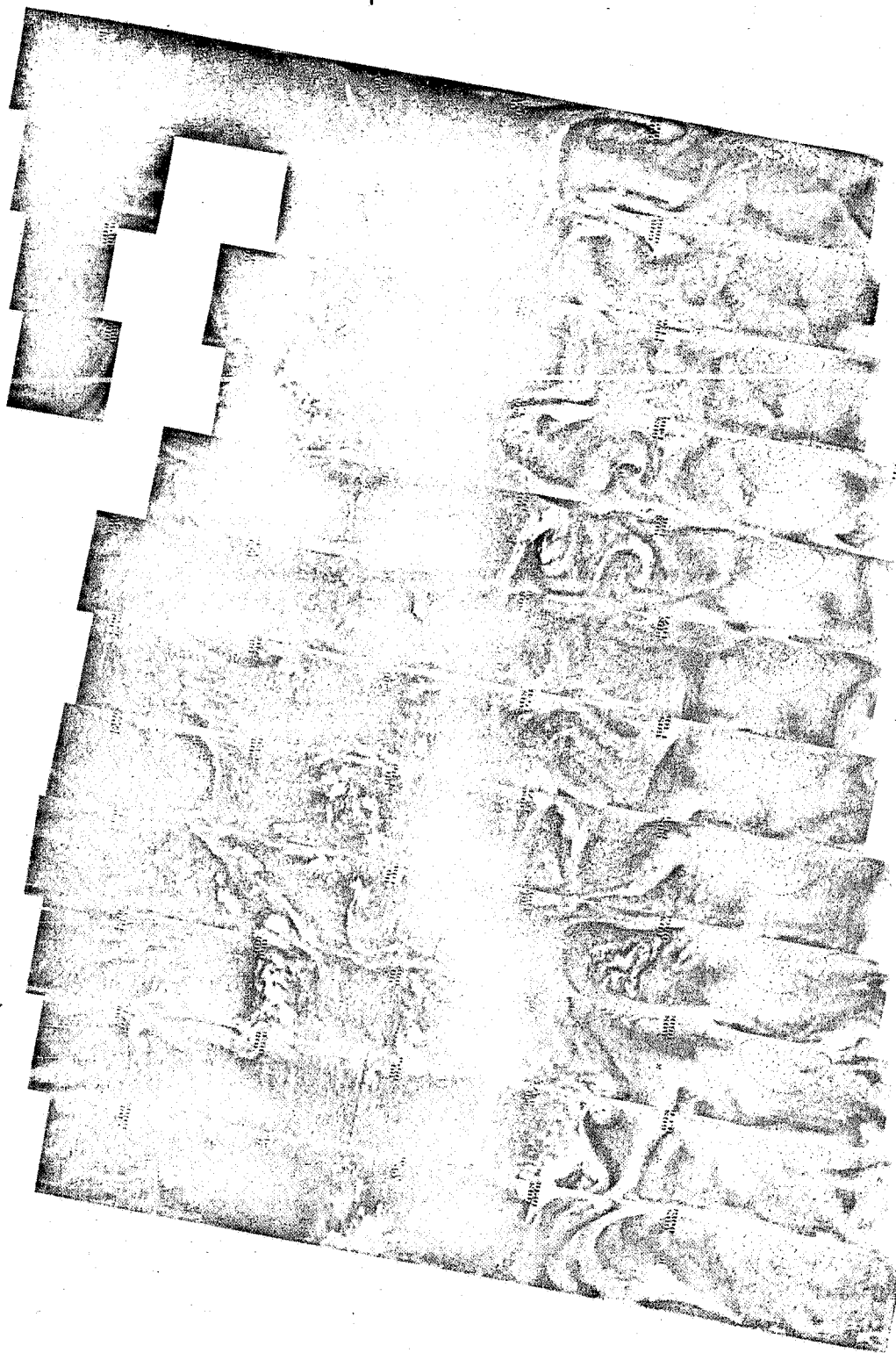
7821 7820 7819 7818 7817 7816 7815 7814 7813 7812 7811 7810 7809

16 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



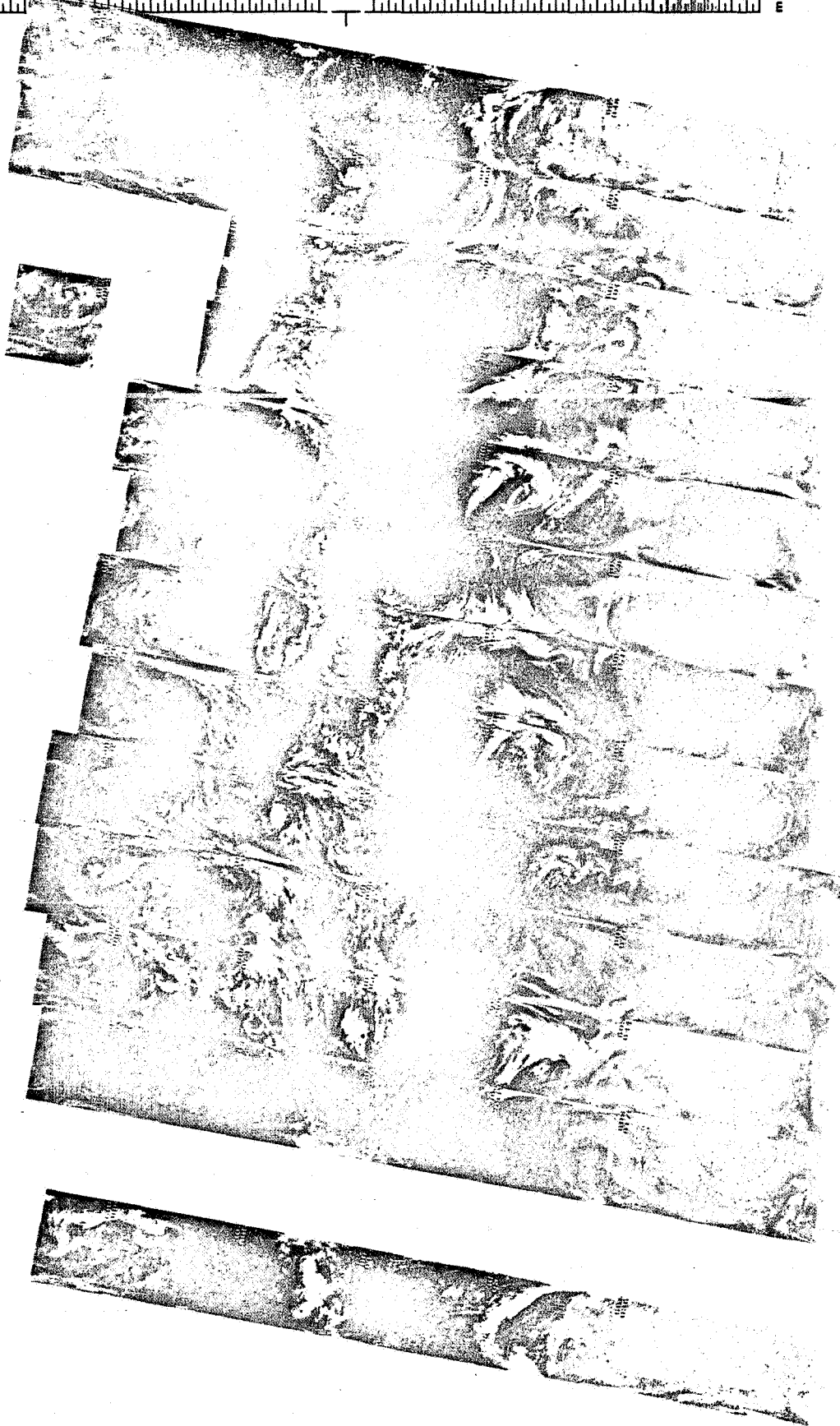
7821 7820 7819 7818 7817 7816 7815 7814 7813 7812 7811 7810 7809

16 JULY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



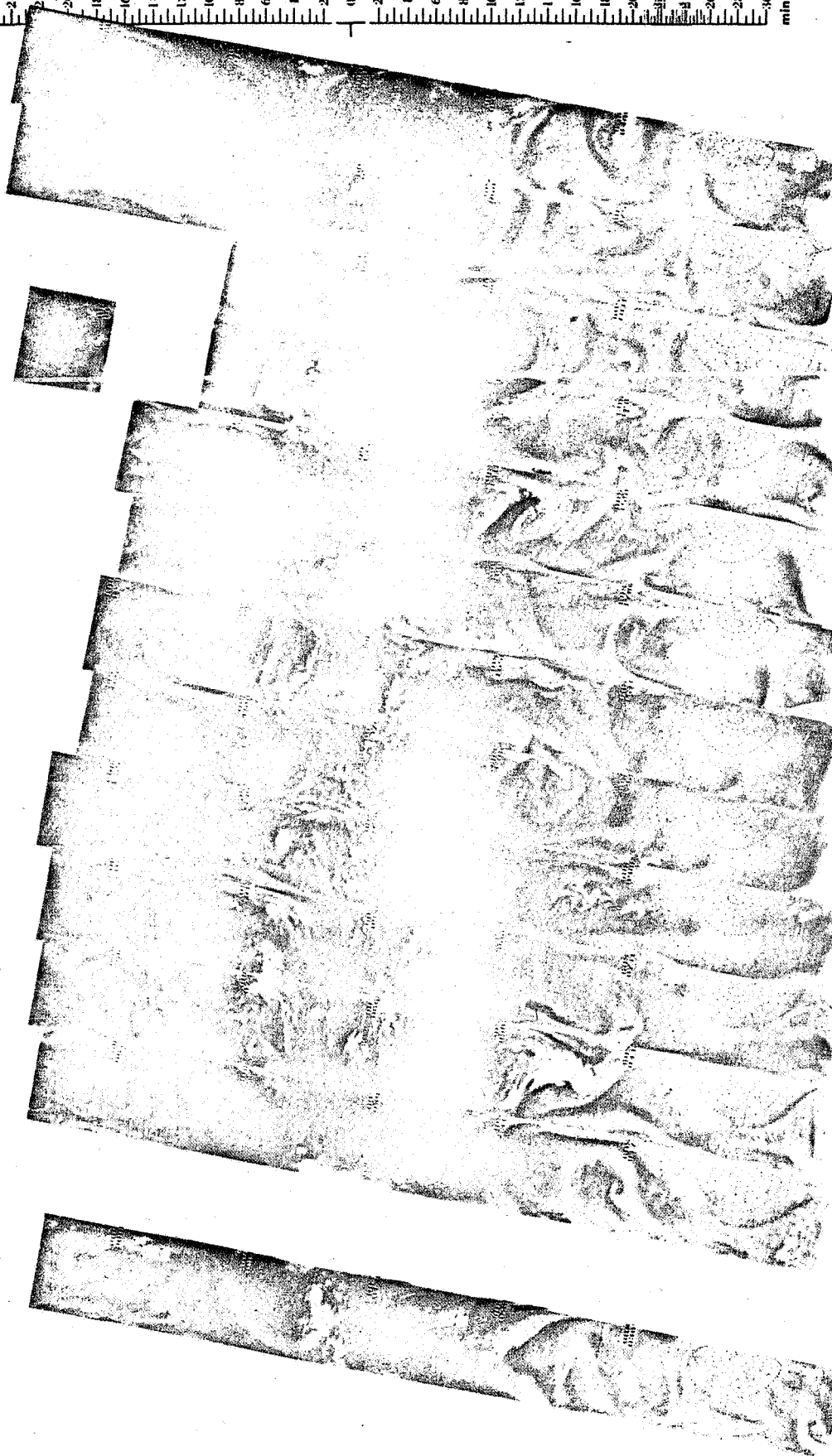
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7835 7834 7833 7832 7831 7830 7829 7828 7827 7826 7825 7824 7823 7822

17 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



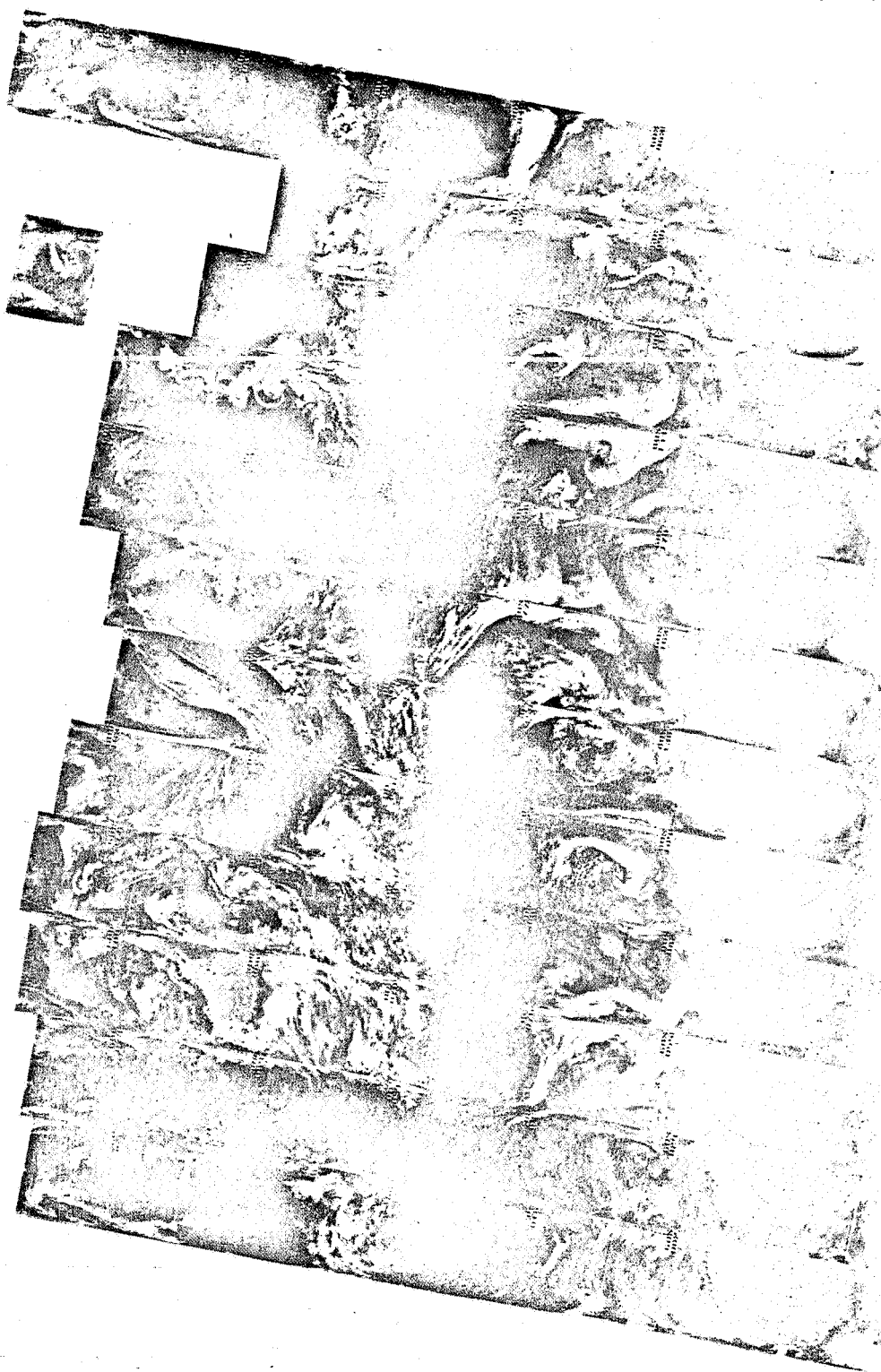
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7835 7834 7833 7832 7831 7830 7829 7828 7827 7826 7825 7824 7823 7822

17 JULY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



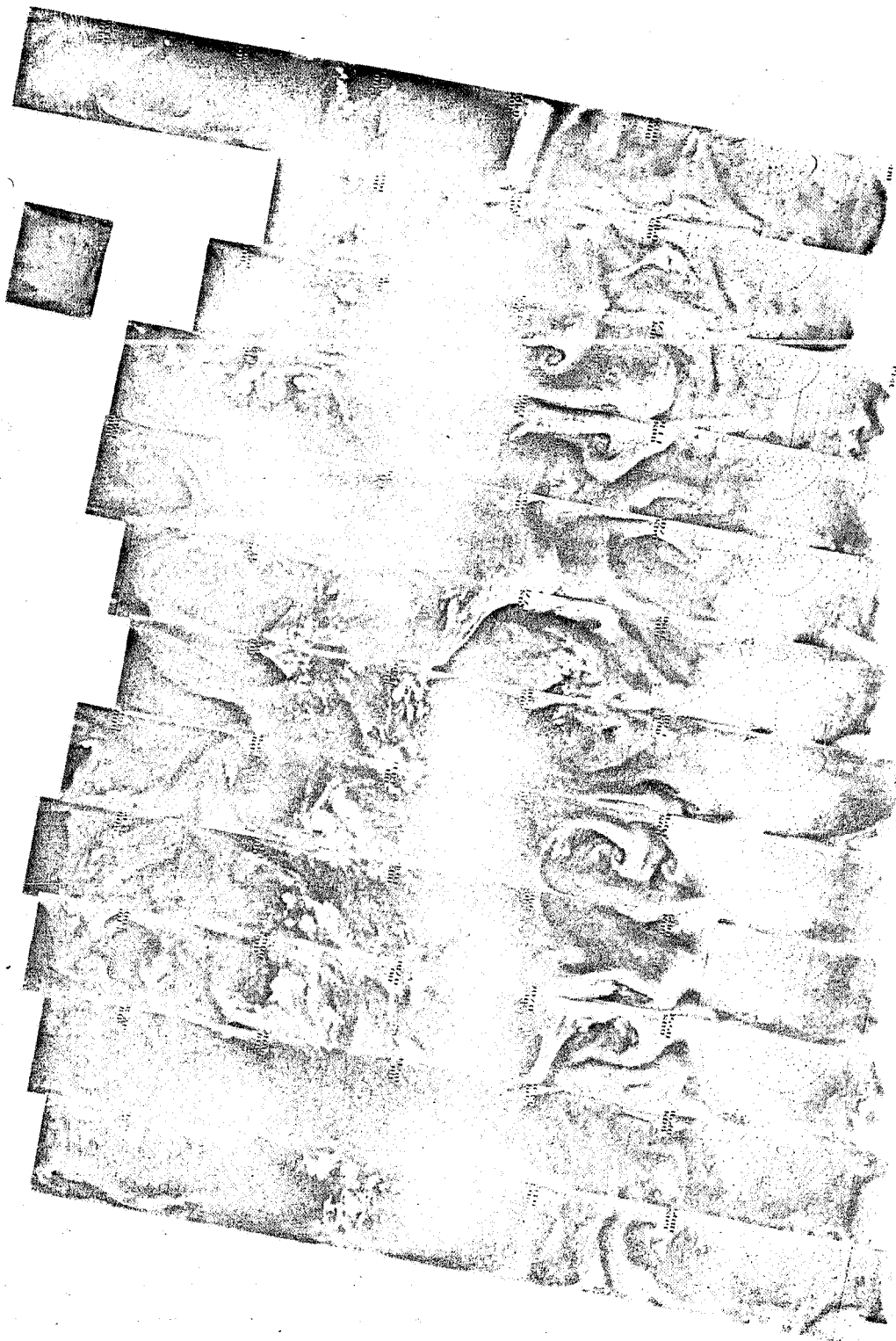
7848 7847 7846 7845 7844 7843 7842 7841 7840 7839 7838 7837 7836

18 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



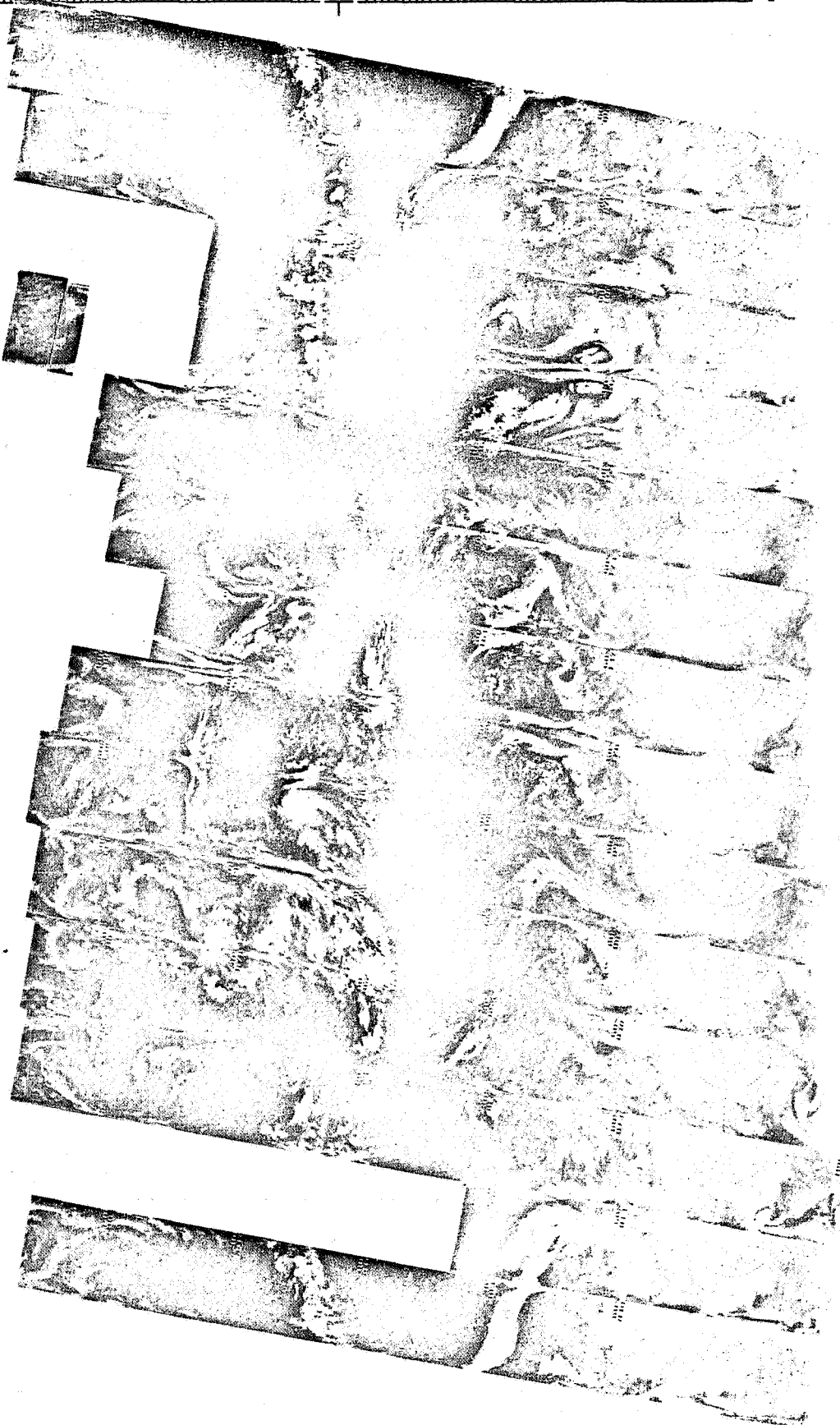
7848 7847 7846 7845 7844 7843 7842 7841 7840 7839 7838 7837 7836

18 JULY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



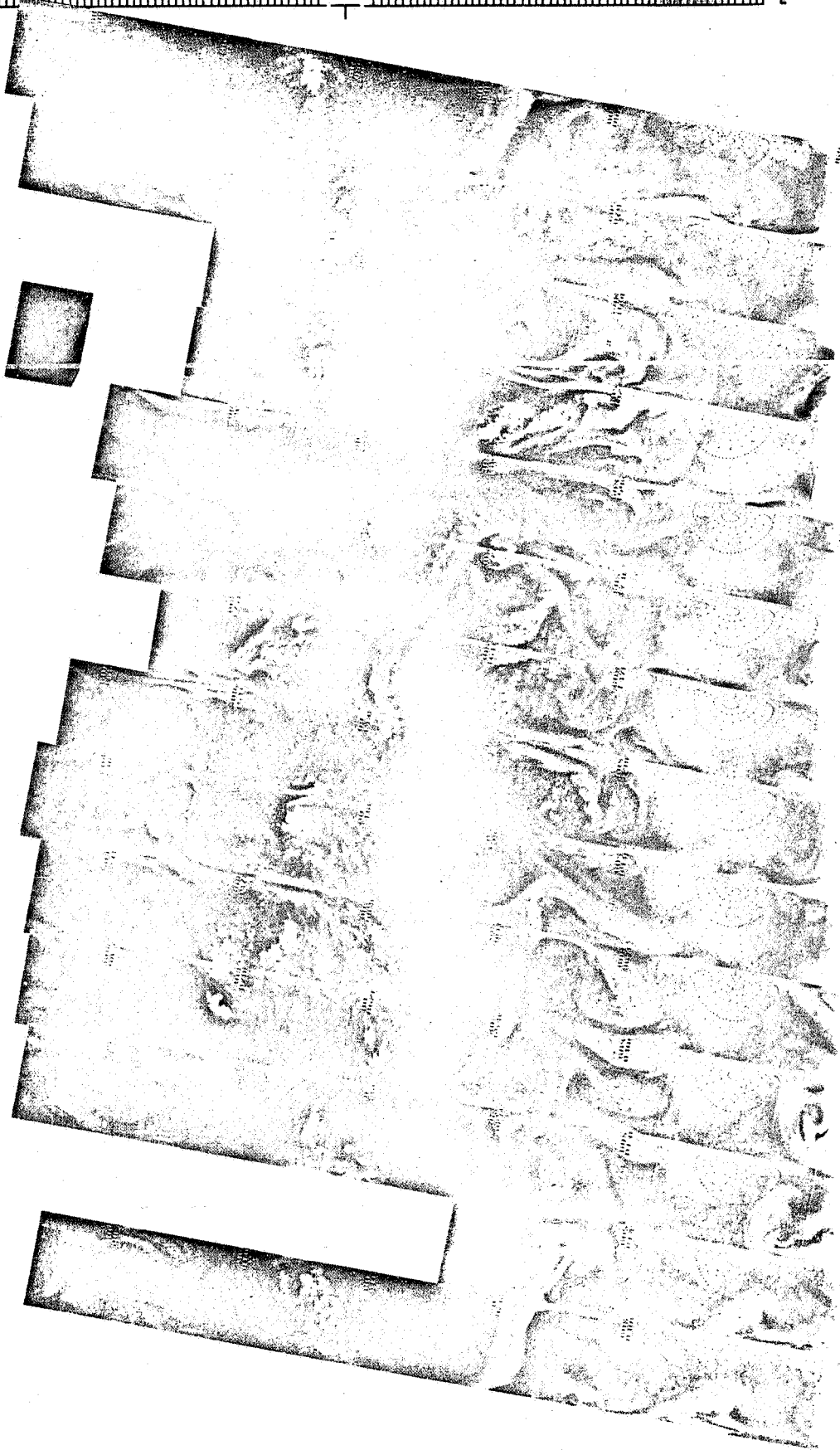
7862 7861 7860 7859 7858 7857 7856 7855 7854 7853 7852 7851 7850 7849

19 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



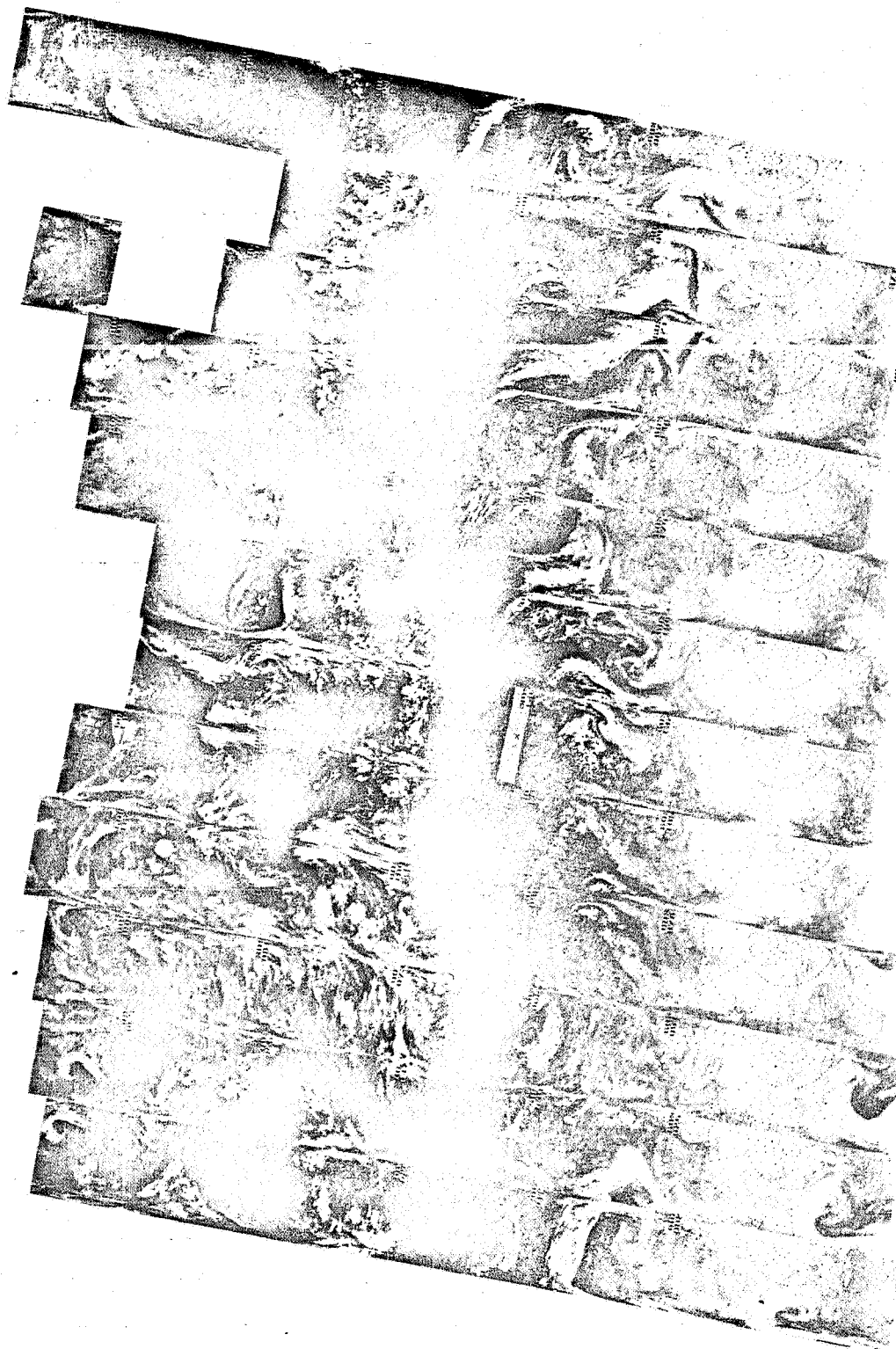
7862 7861 7860 7859 7858 7857 7856 7855 7854 7853 7852 7851 7850 7849

19 JULY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

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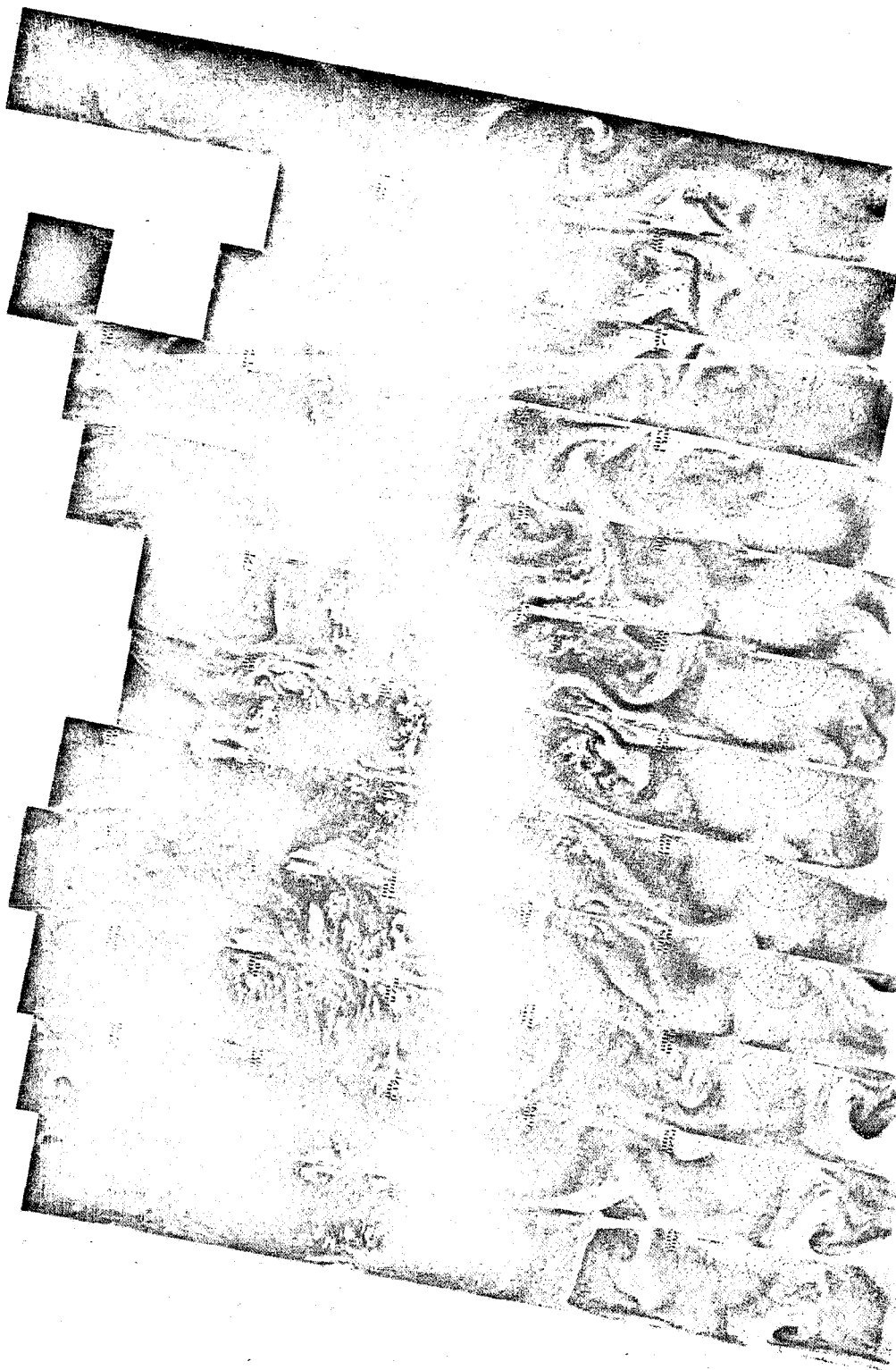
7875 7874 7873 7872 7871 7870 7869 7868 7867 7866 7865 7864 7863

20 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



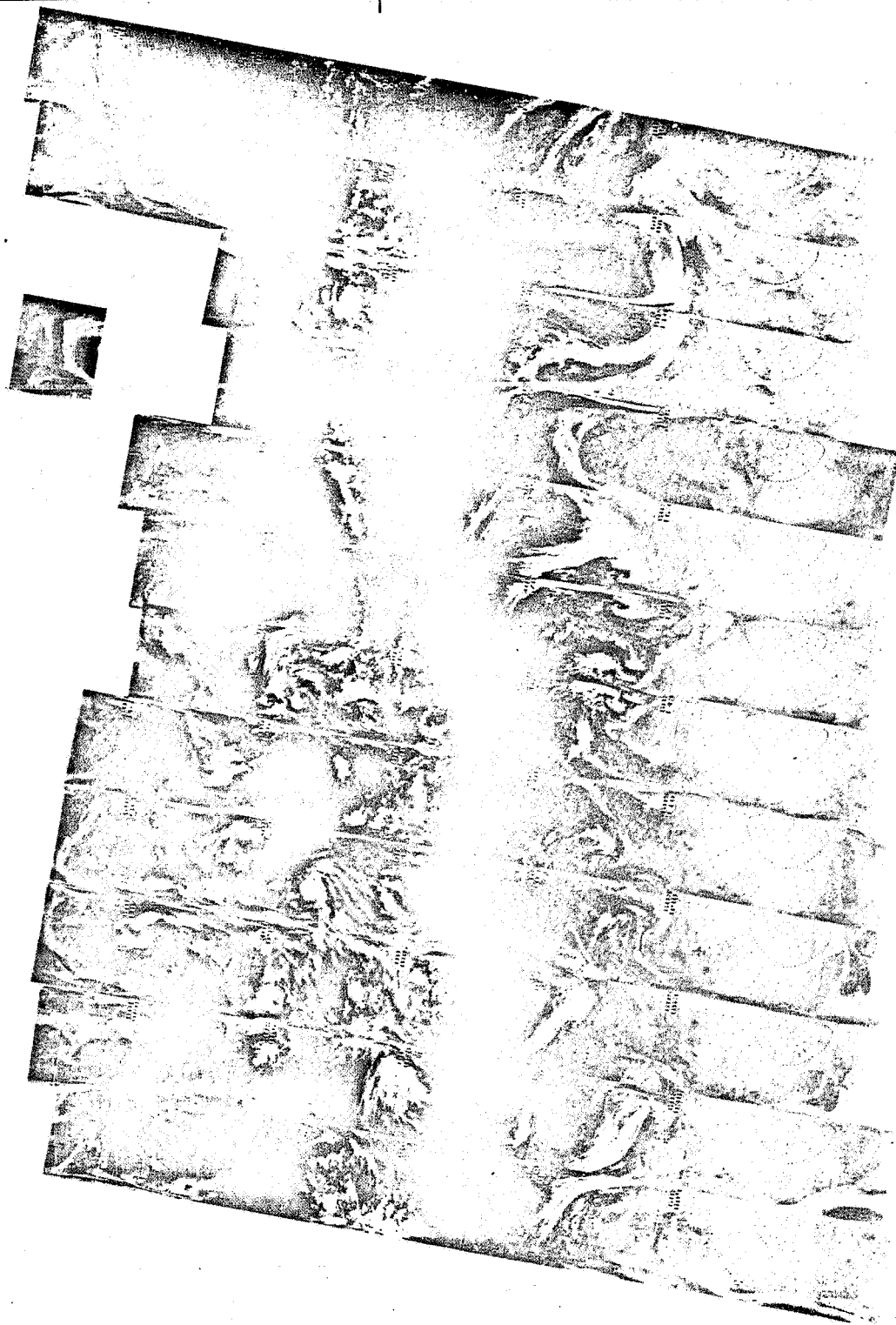
7875 7874 7873 7872 7871 7870 7869 7868 7867 7866 7865 7864 7863

20 JULY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



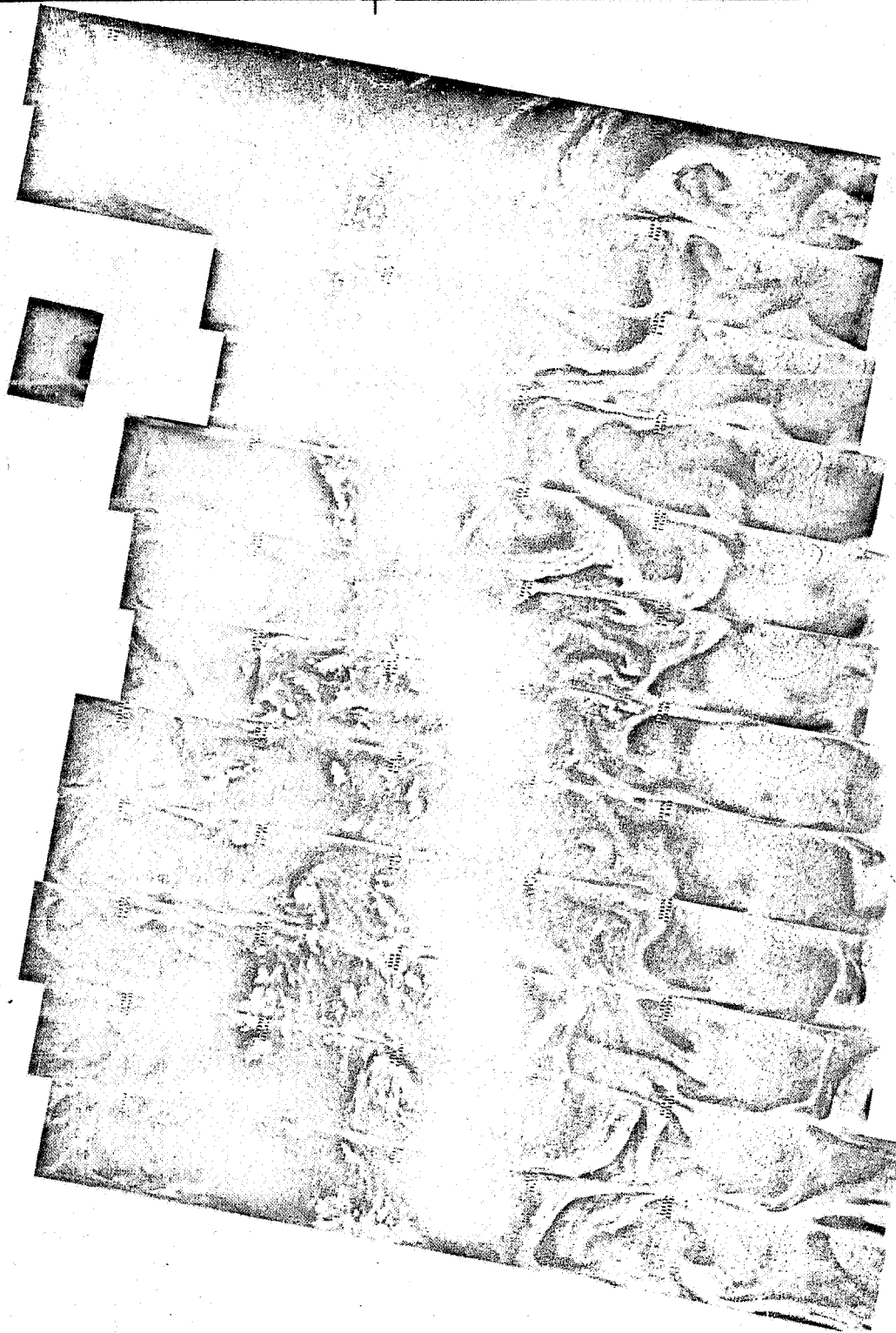
7888 7887 7886 7885 7884 7883 7882 7881 7880 7879 7878 7877 7876

21 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7888 7887 7886 7885 7884 7883 7882 7881 7880 7879 7878 7877 7876

21 JULY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



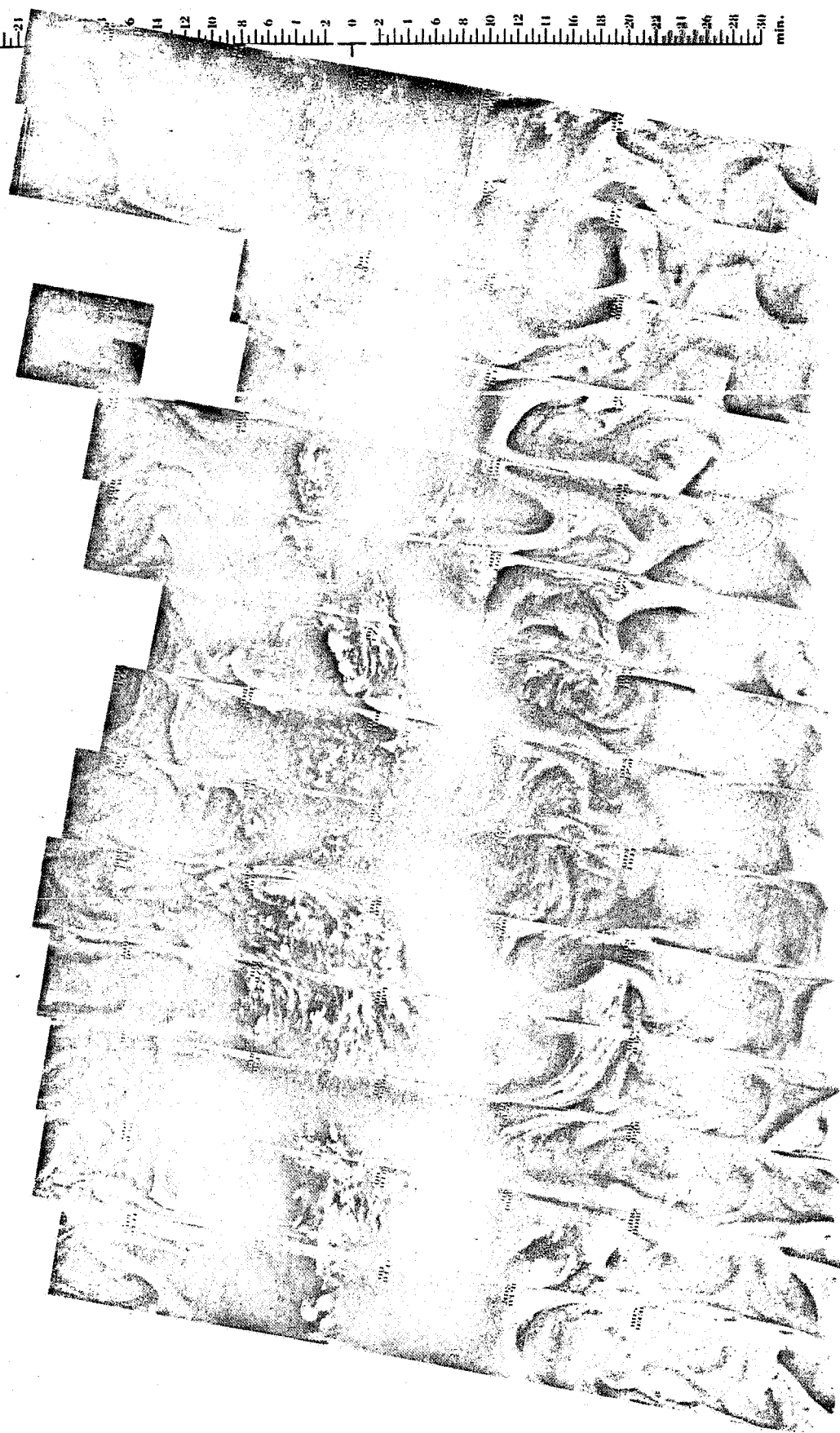
7902 7901 7900 7899 7898 7897 7896 7895 7894 7893 7892 7891 7890 7889

22 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7902 7901 7900 7899 7898 7897 7896 7895 7894 7893 7892 7891 7890 7889

22 JULY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7915 7914 7913 7912 7911 7910 7909 7908 7907 7906 7905 7904 7903

23 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7915 7914 7913 7912 7911 7910 7909 7908 7907 7906 7905 7904 7903

23 JULY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



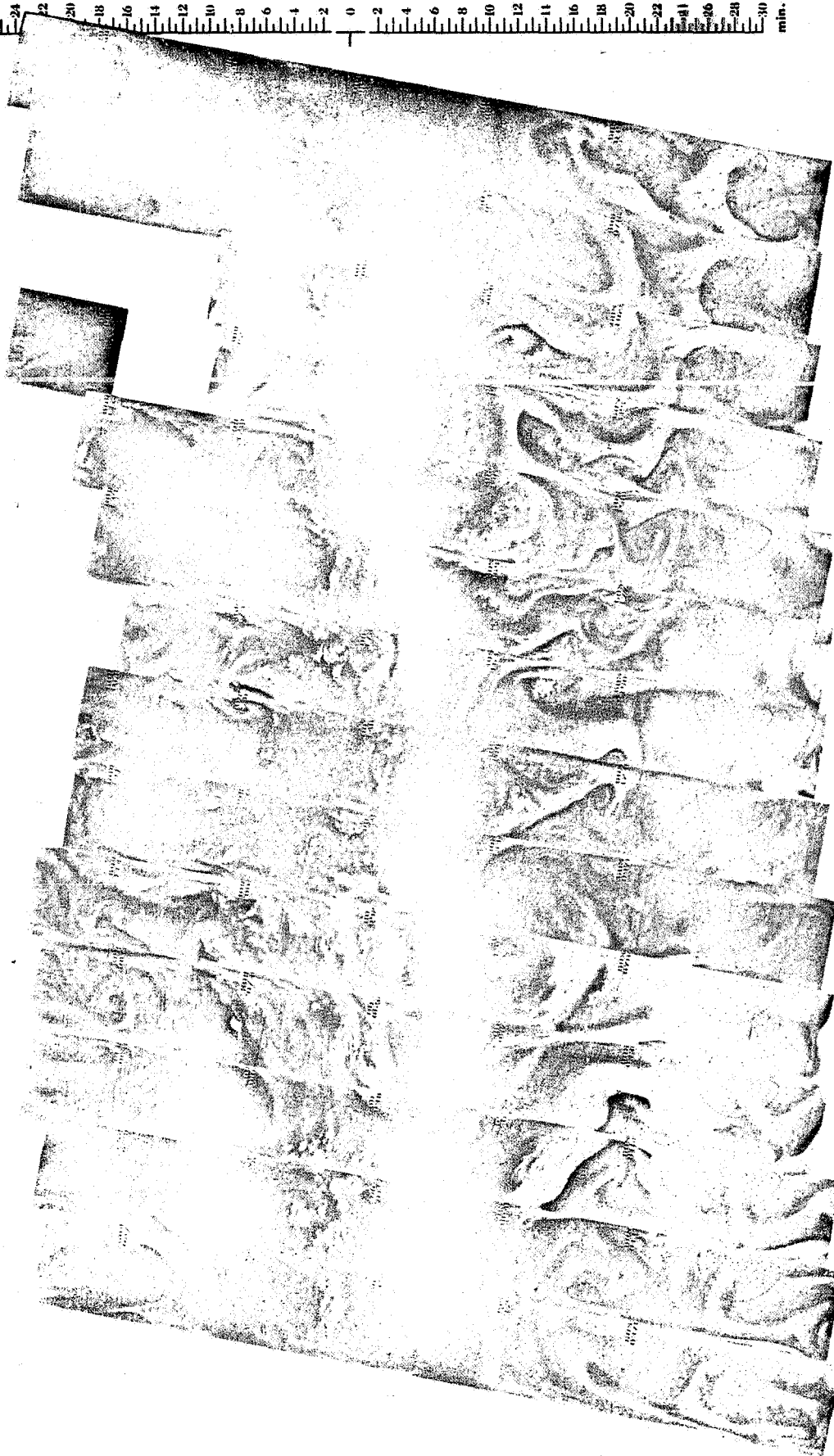
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7929 7928 7927 7926 7925 7924 7923 7922 7921 7920 7919 7918 7917 7916

24 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7929 7928 7927 7926 7925 7924 7923 7922 7921 7920 7919 7918 7917 7916

24 JULY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7942 7941 7940 7939 7938 7937 7936 7935 7934 7933 7932 7931 7930

25 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



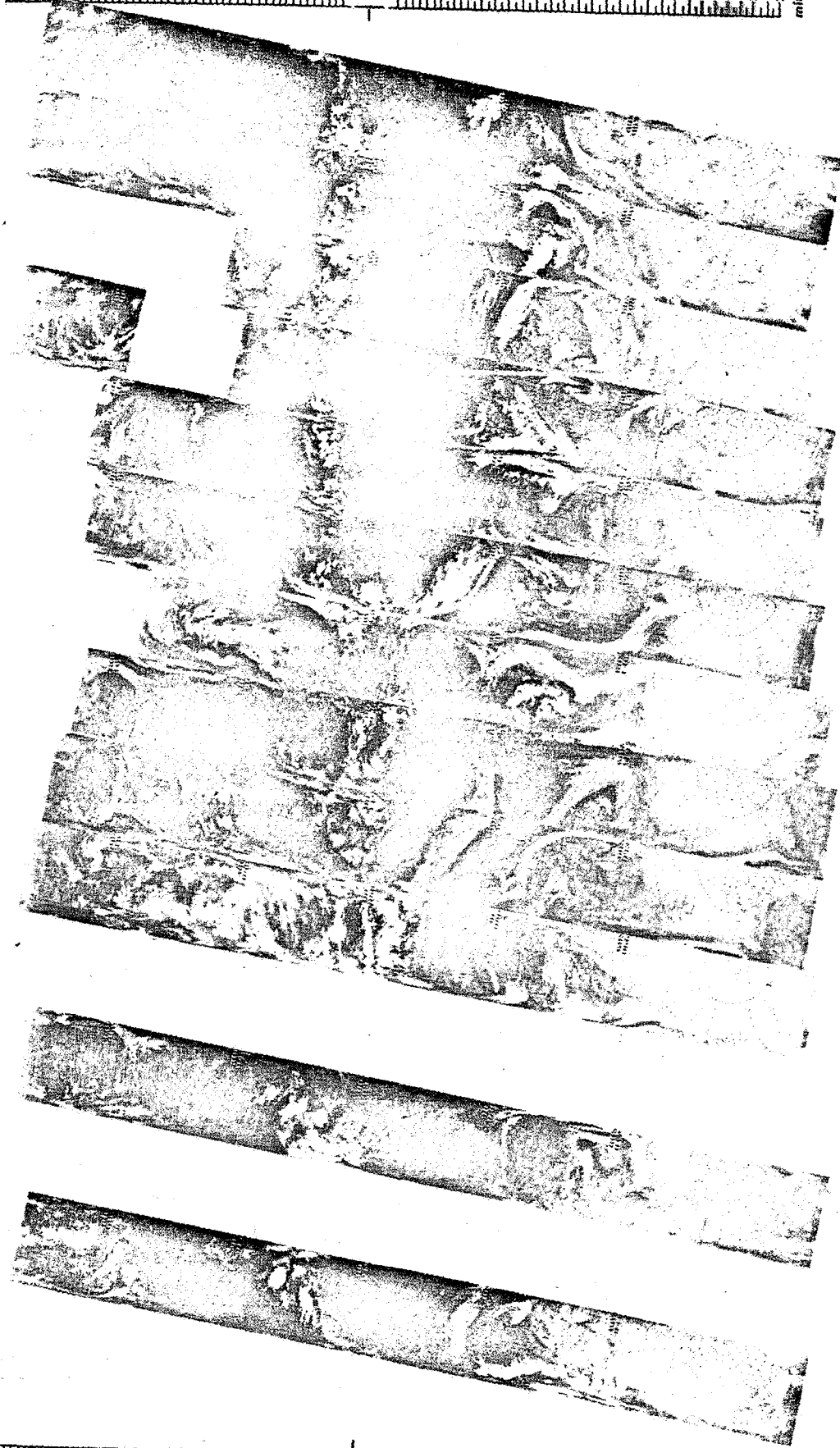
7942 7941 7940 7939 7938 7937 7936 7935 7934 7933 7932 7931 7930

25 JULY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



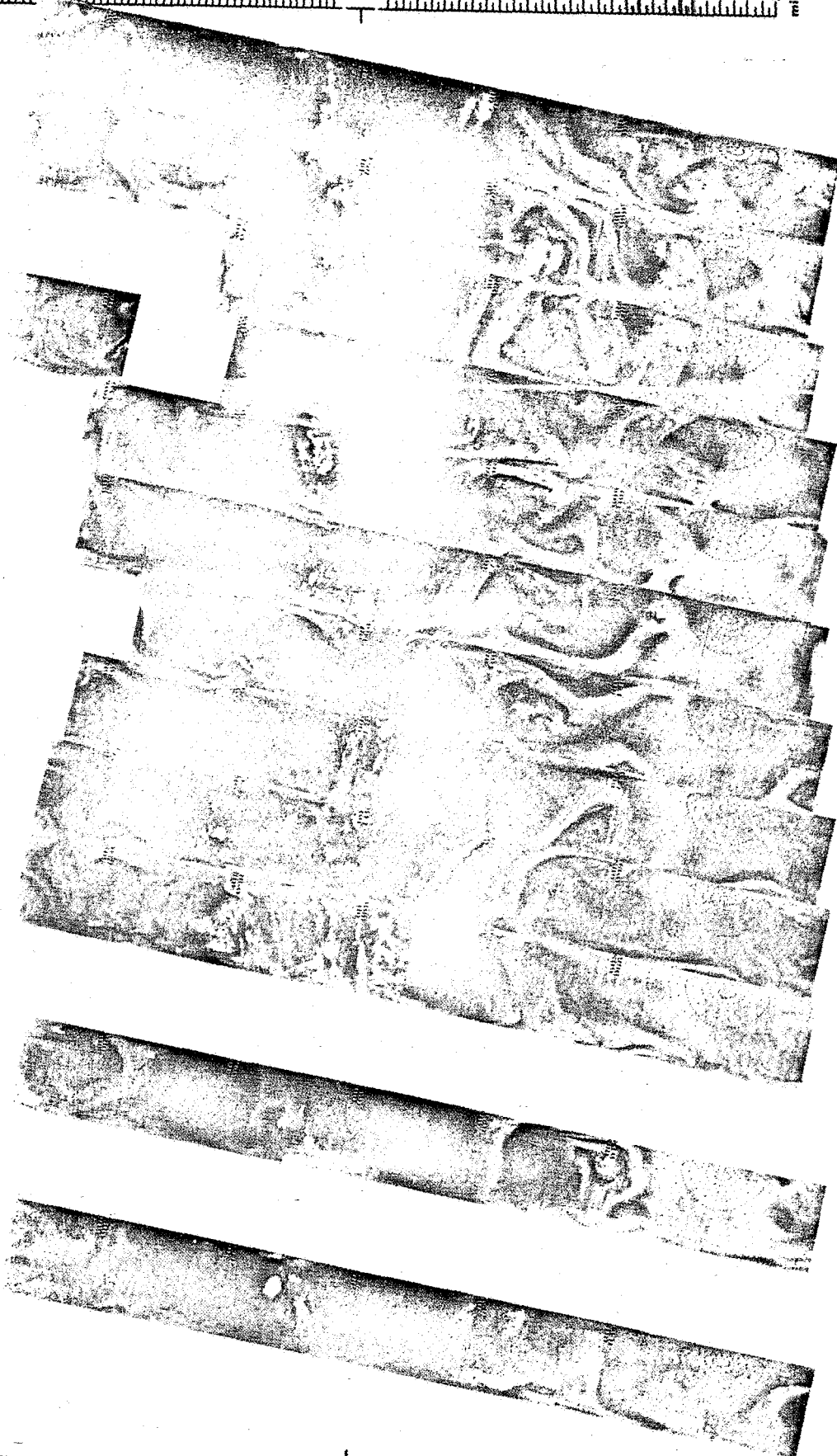
7956 7955 7954 7953 7952 7951 7950 7949 7948 7947 7946 7945 7944 7943

26 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7956 7955 7954 7953 7952 7951 7950 7949 7948 7947 7946 7945 7944 7943

26 JULY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7969 7968 7967 7966 7965 7964 7963 7962 7961 7960 7959 7958 7957

27 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7969 7968 7967 7966 7965 7964 7963 7962 7961 7960 7959 7958 7957

27 JULY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7982 7981 7980 7979 7978 7977 7976 7975 7974 7973 7972 7971 7970

28 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7982 7981 7980 7979 7978 7977 7976 7975 7974 7973 7972 7971 7970

28 JULY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7996 7995 7994 7993 7992 7991 7990 7989 7988 7987 7986 7985 7984 7983

29 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



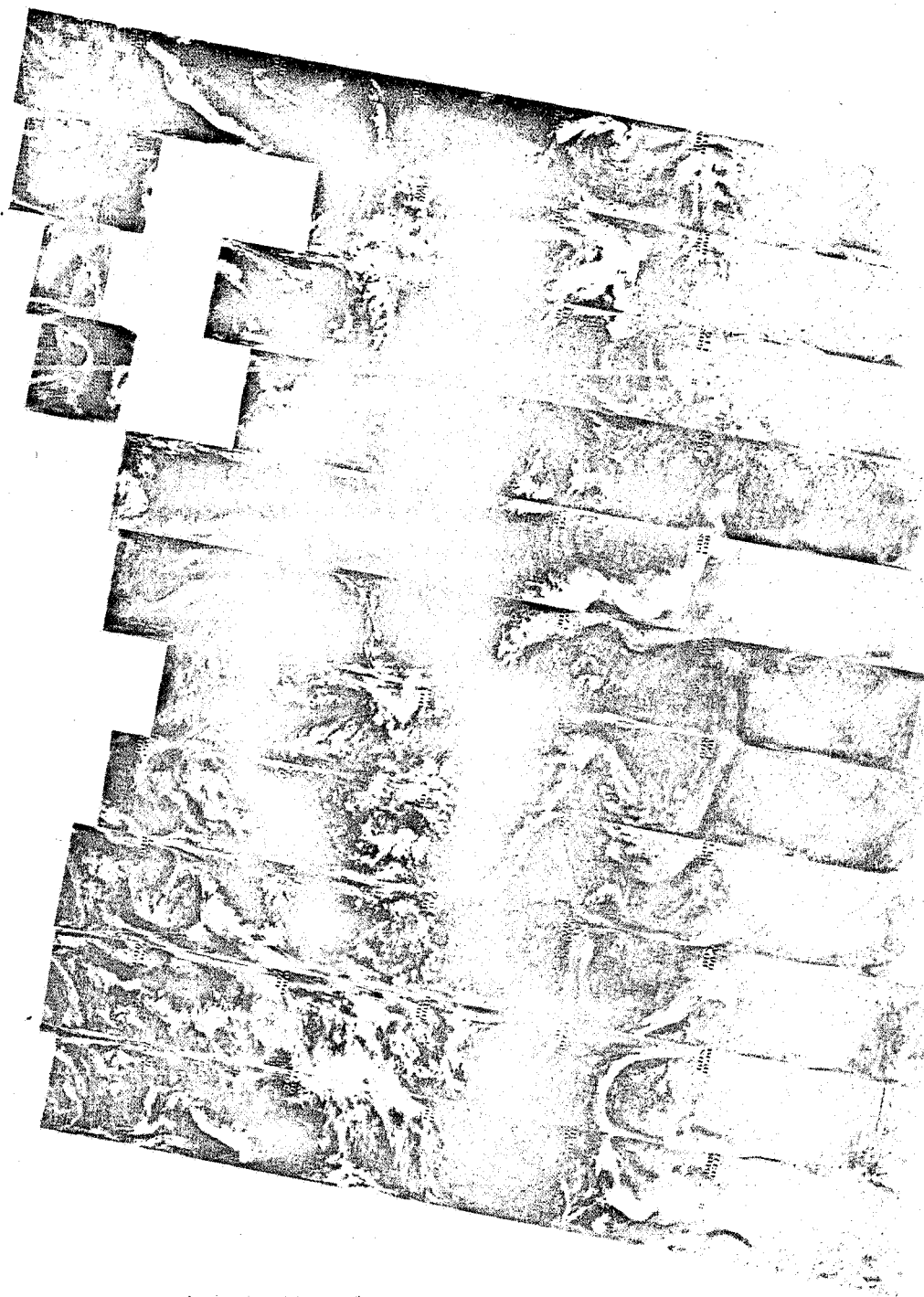
7996 7995 7994 7993 7992 7991 7990 7989 7988 7987 7986 7985 7984 7983

29 JULY 1974

6.7 μm

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8009 8008 8007 8006 8005 8004 8003 8002 8001 8000 7999 7998 7997

30 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8009 8008 8007 8006 8005 8004 8003 8002 8001 8000 7999 7998 7997

30 JULY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

8023 8022 8021 8020 8019 8018 8017 8016 8015 8014 8013 8012 8011 8010

31 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



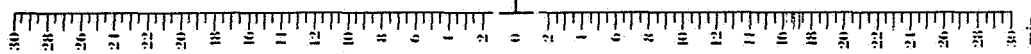
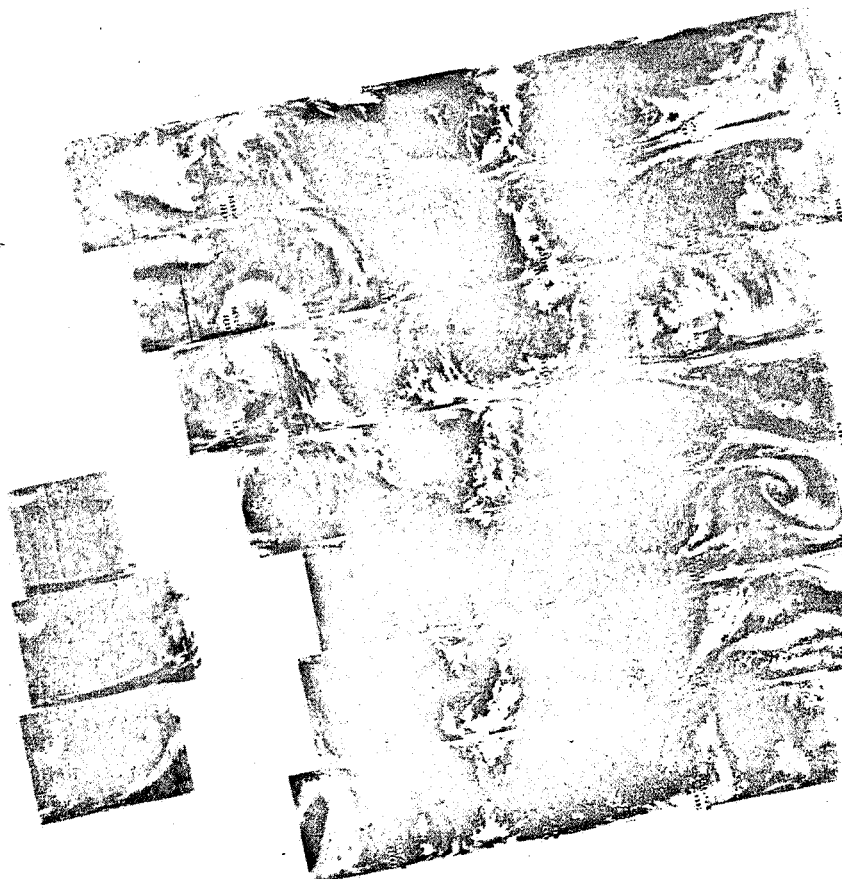
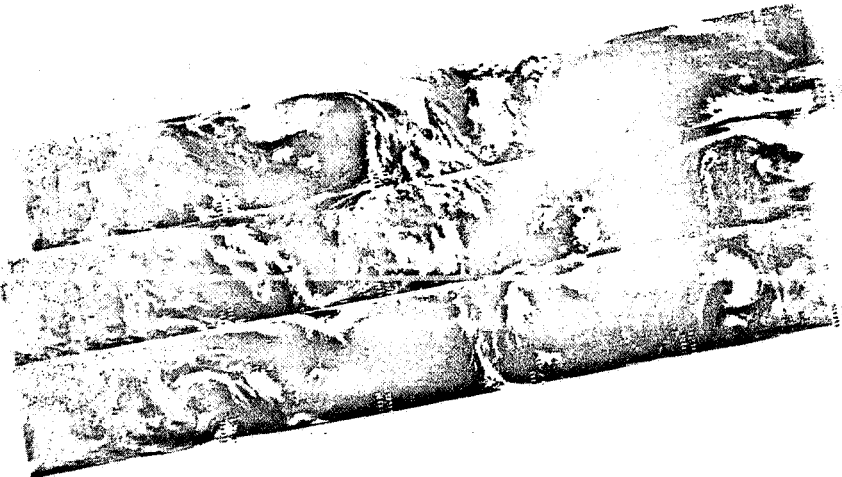
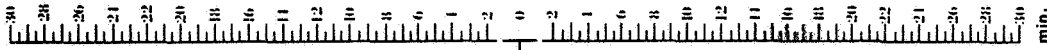
8023 8022 8021 8020 8019 8018 8017 8016 8015 8014 8013 8012 8011 8010

31 JULY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

SECTION 4.2
TEMPERATURE HUMIDITY INFRARED RADIOMETER
DAYTIME MONTAGES

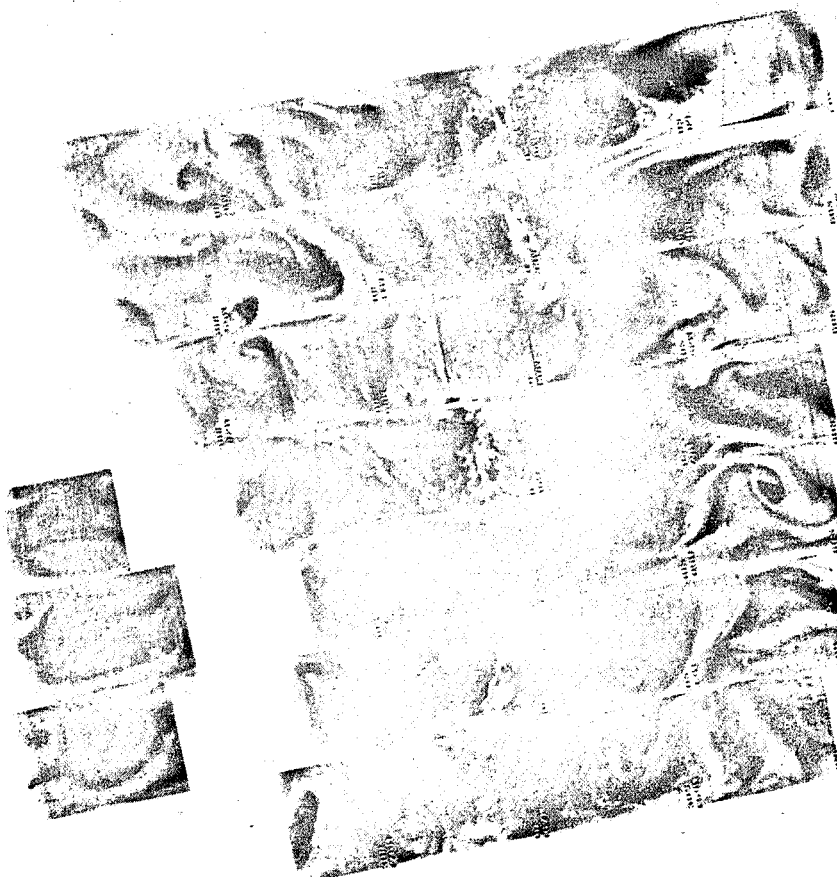


7205 7206 7207 7208 7209 7210 7211 7212 7213 7214 7215 7216 7217

1 JUNE 1974

1" 5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



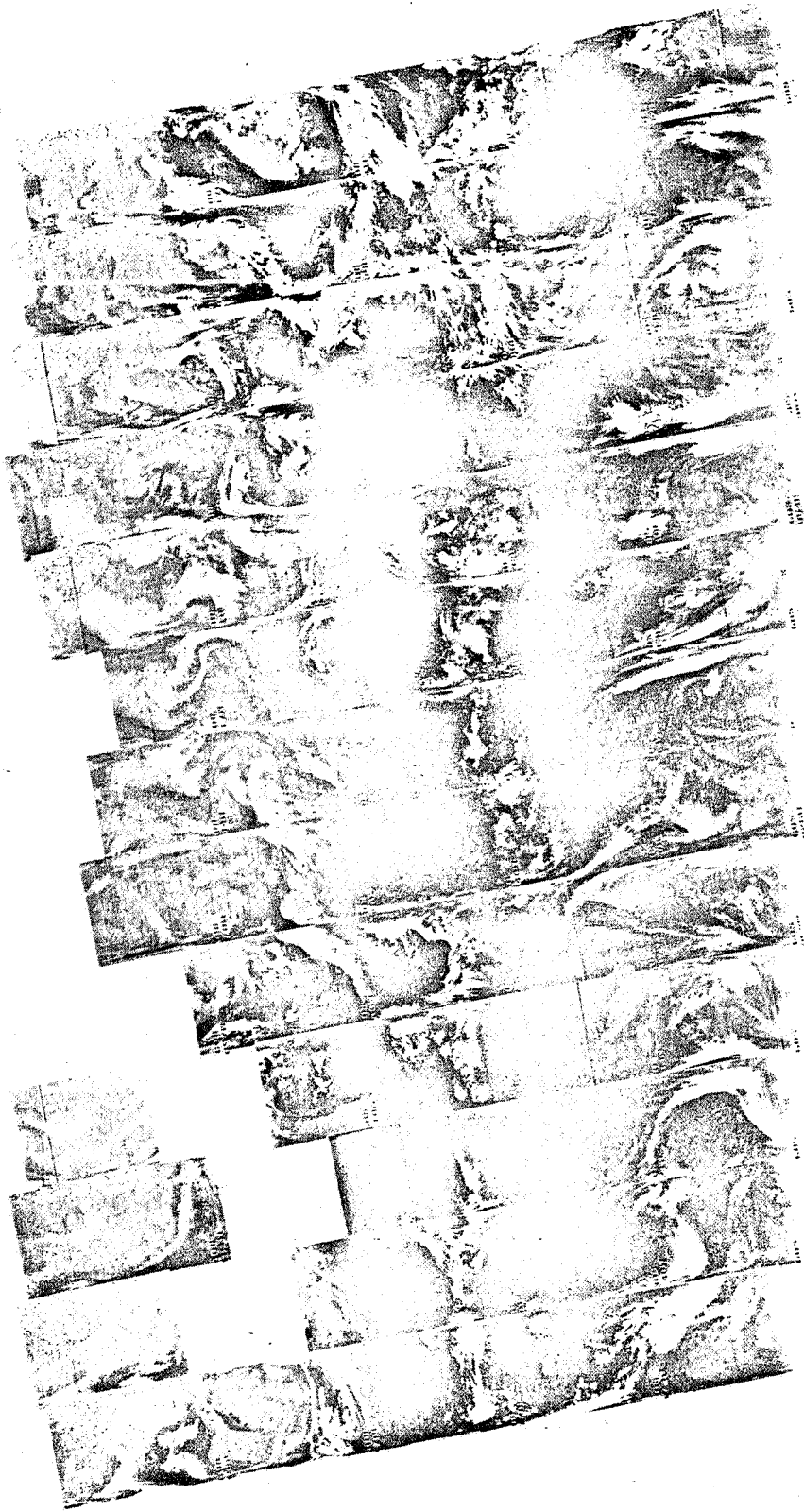
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7217 7216 7215 7214 7213 7212 7211 7210 7209 7208 7207 7206 7205

1 JUNE 1974

7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7231 7230 7229 7228 7227 7226 7225 7224 7223 7222 7221 7220 7219 7218

2 JUNE 1974

1¹/₂ 5 μm



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7231 7230 7229 7228 7227 7226 7225 7224 7223 7222 7221 7220 7219 7218

2 JUNE 1974

7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7244 7243 7242 7241 7240 7239 7238 7237 7236 7235 7234 7233 7232

3 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



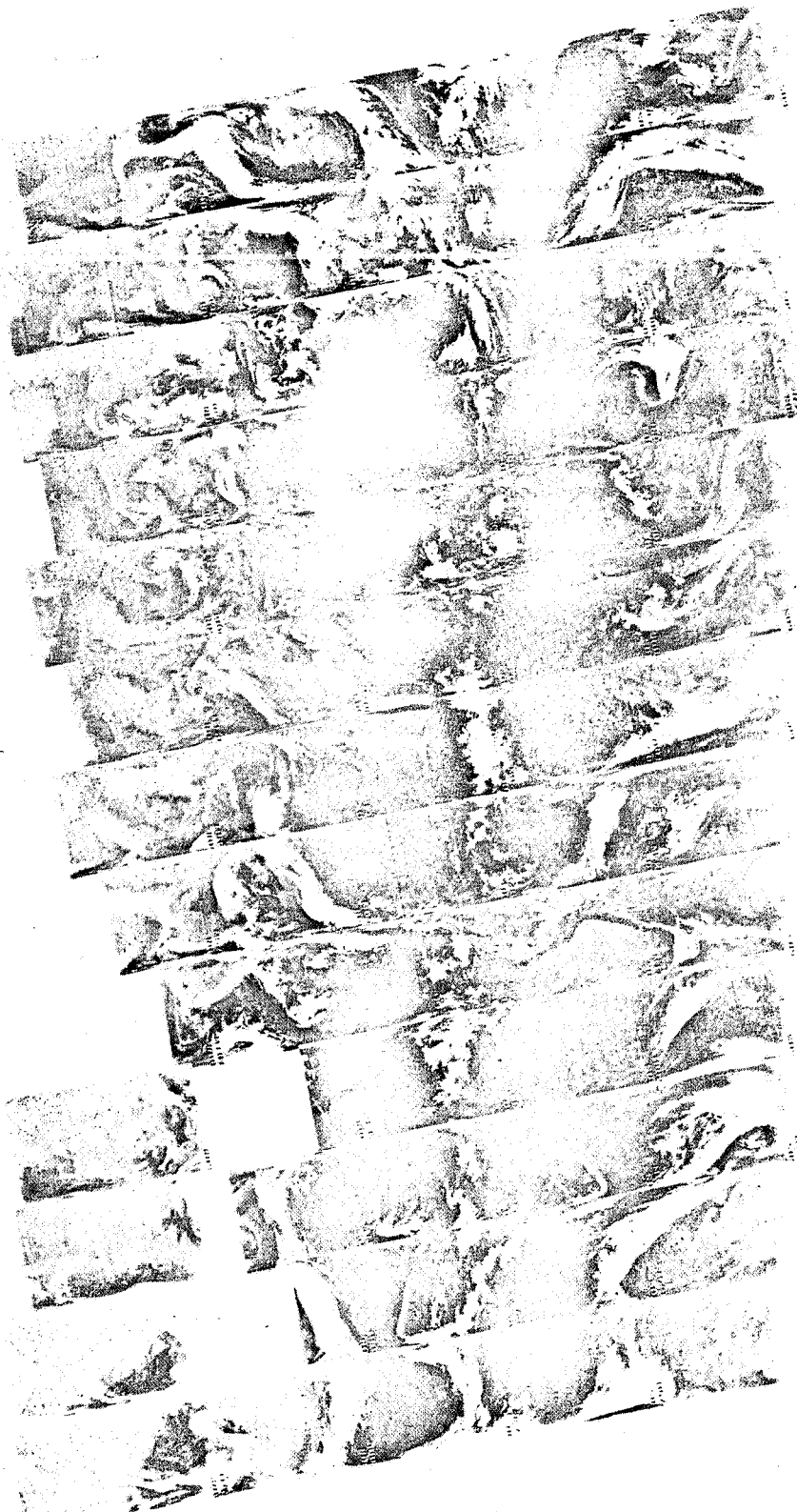
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7244 7243 7242 7241 7240 7239 7238 7237 7236 7235 7234 7233 7232

3 JUNE 1974

67 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7258 7257 7256 7255 7254 7253 7252 7251 7250 7249 7248 7247 7246 7245

4 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



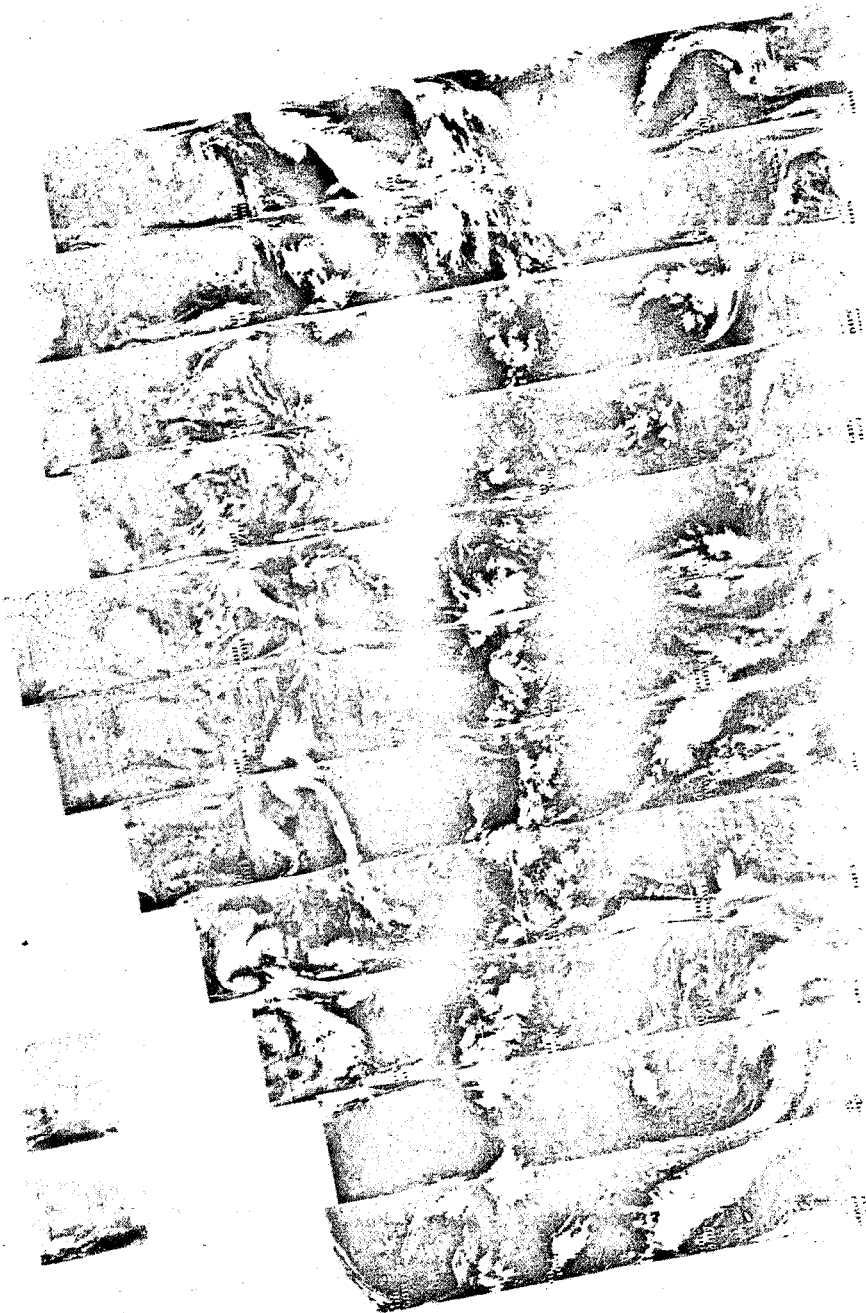
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7258 7257 7256 7255 7254 7253 7252 7251 7250 7249 7248 7247 7246 7245

4 JUNE 1974

6 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7271 7270 7269 7268 7267 7266 7265 7264 7263 7262 7261 7260 7259

5 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7271 7270 7269 7268 7267 7266 7265 7264 7263 7262 7261 7260 7259

5 JUNE 1974

67 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7284 7283 7282 7281 7280 7279 7278 7277 7276 7275 7274 7273 7272

6 JUNE 1974

12 5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7284 7283 7282 7281 7280 7279 7278 7277 7276 7275 7274 7273 7272

6 JUNE 1974

6.3m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



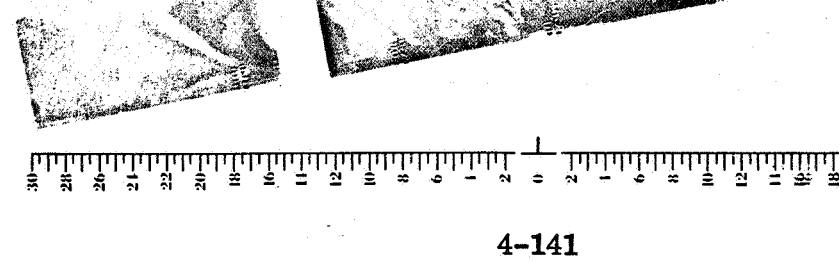
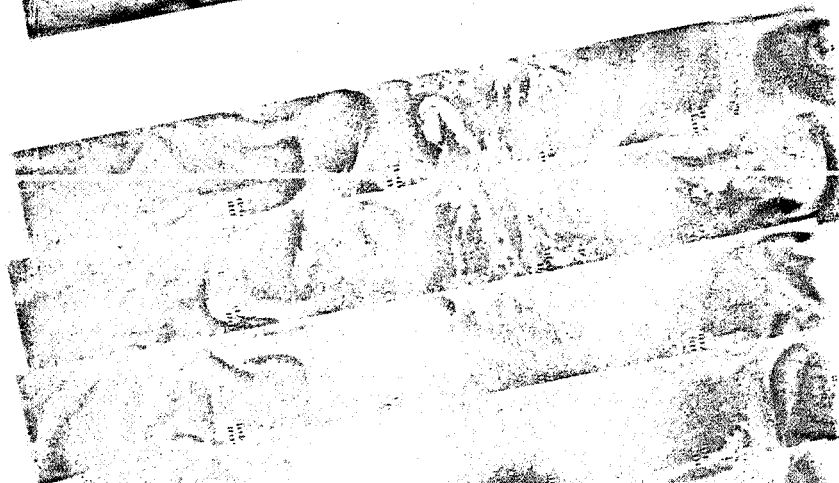
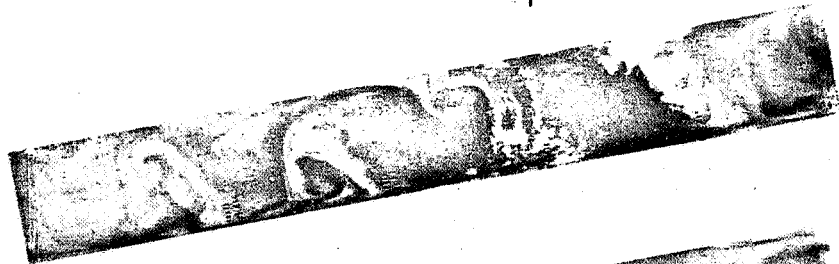
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7298 7297 7296 7295 7294 7293 7292 7291 7290 7289 7288 7287 7286 7285

7 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7298 7297 7296 7295 7294 7293 7292 7291 7290 7289 7288 7287 7286 7285

7 JUNE 1974

6.7 m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7311 7310 7309 7308 7307 7306 7305 7304 7303 7302 7301 7300 7299

8 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



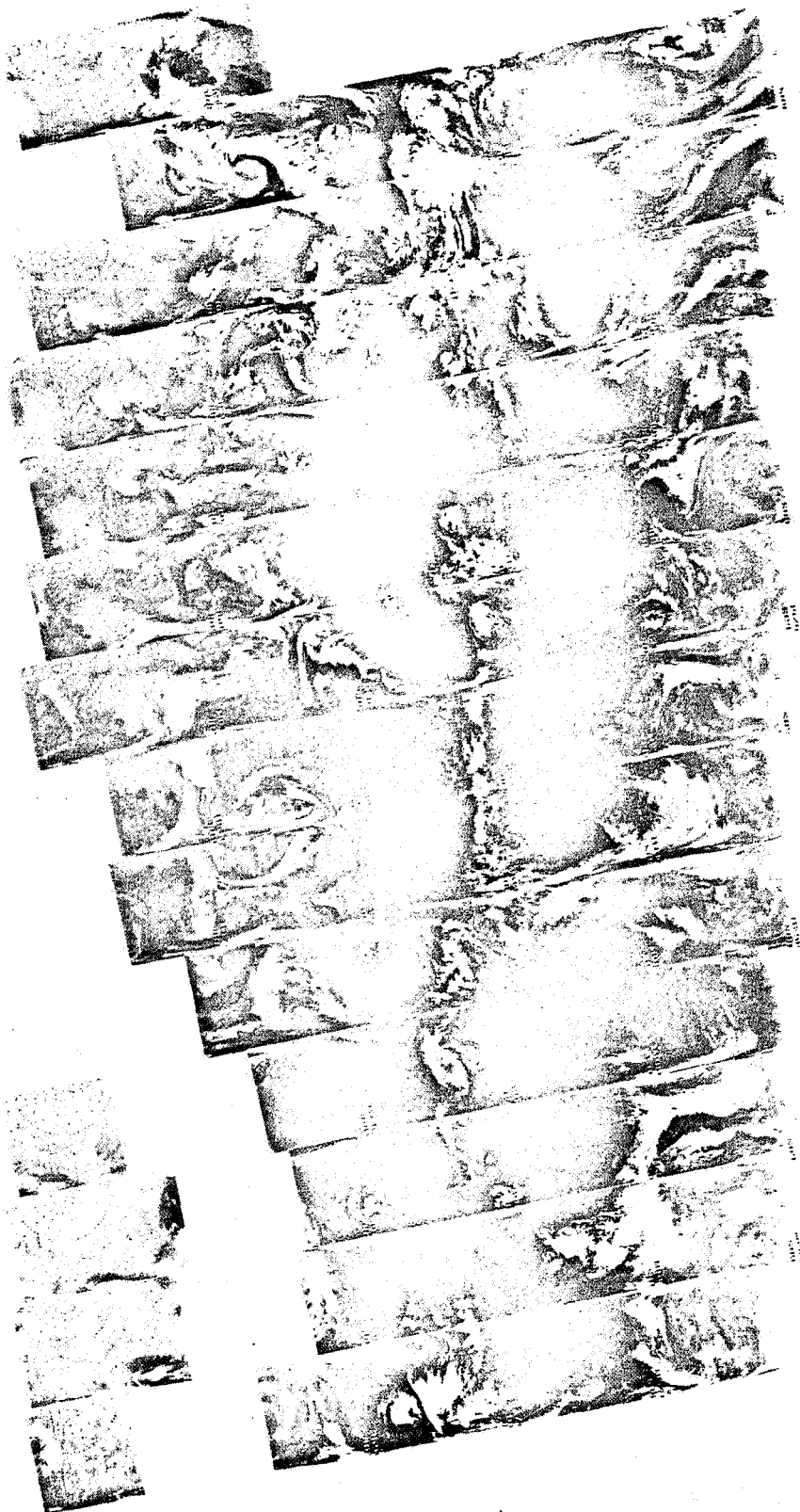
7311 7310 7309 7308 7307 7306 7305 7304 7303 7302 7301 7300 7299

8 JUNE 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7325 7324 7323 7322 7321 7320 7319 7318 7317 7316 7315 7314 7313 7312

9 JUNE 1974

1.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



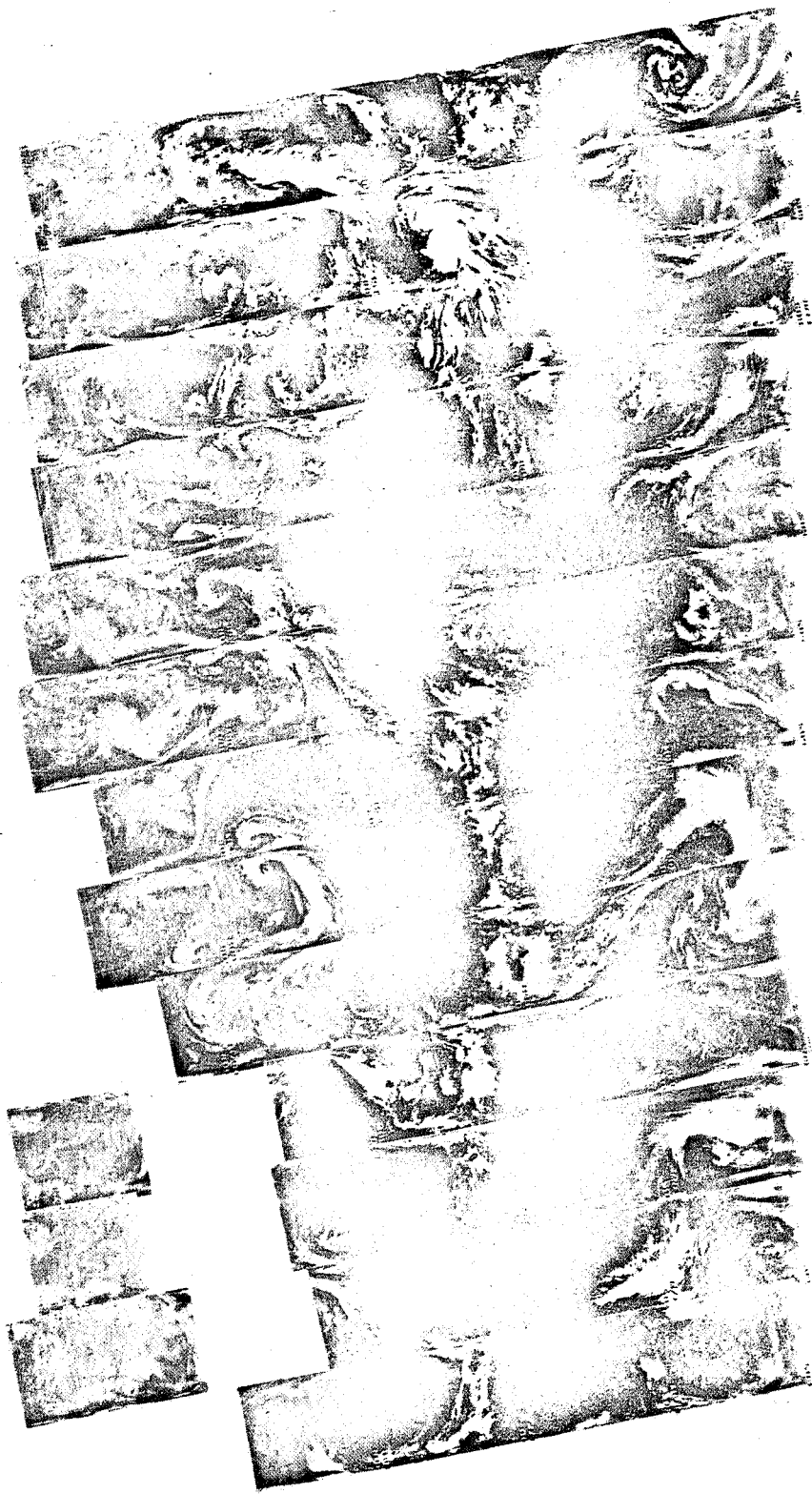
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7325 7324 7323 7322 7321 7320 7319 7318 7317 7316 7315 7314 7313 7312

9 JUNE 1974

6 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



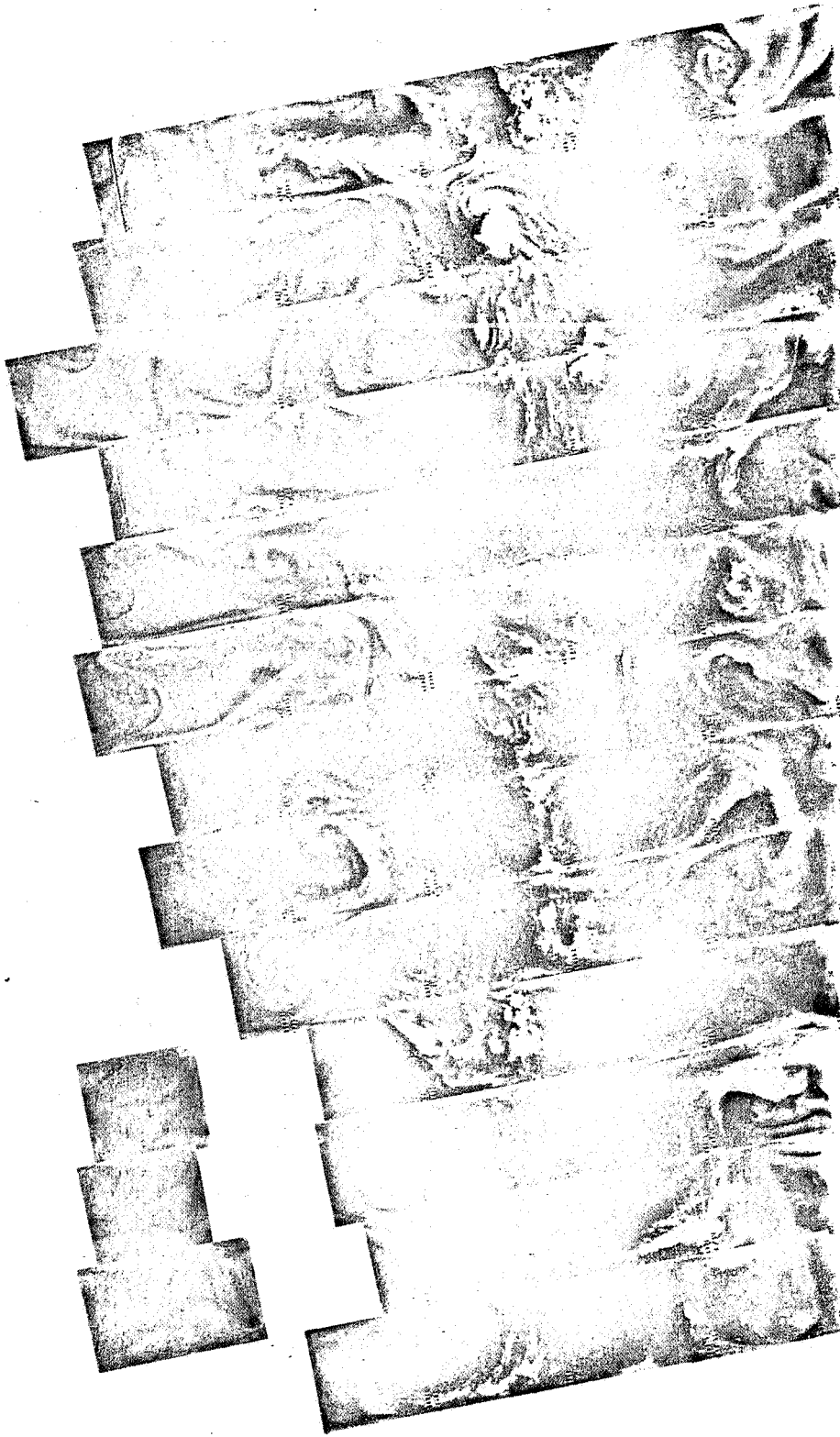
7338 7337 7336 7335 7334 7333 7332 7331 7330 7329 7328 7327 7326

10 JUNE 1974

5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7338 7337 7336 7335 7334 7333 7332 7331 7330 7329 7328 7327 7326

10 JUNE 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7352 7351 7350 7349 7348 7347 7346 7345 7344 7343 7342 7341 7340 7339

11 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

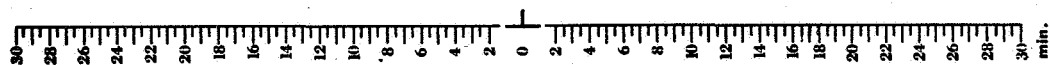
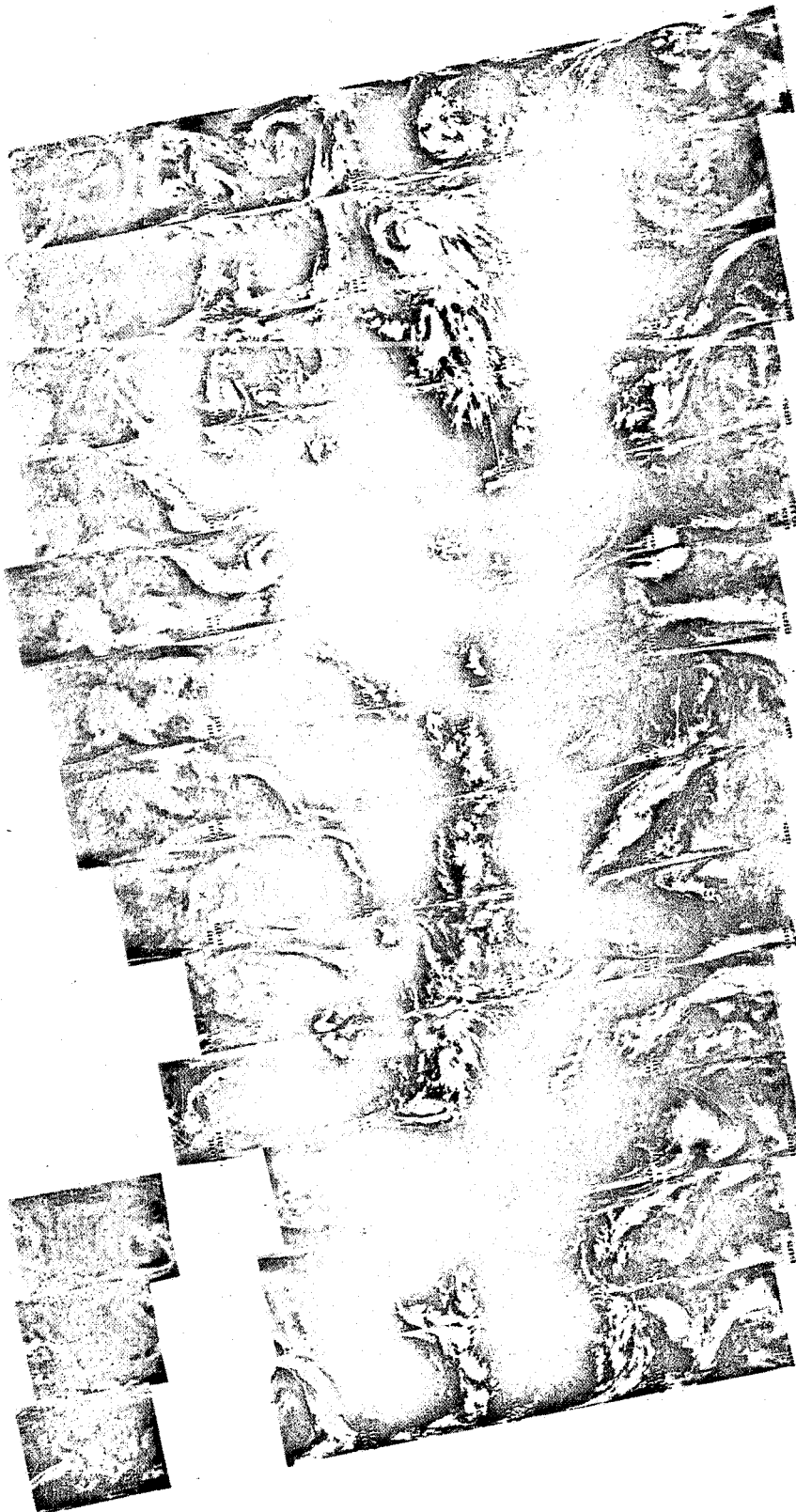
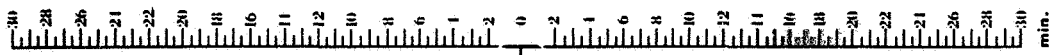


30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7352 7351 7350 7349 7348 7347 7346 7345 7344 7343 7342 7341 7340 7339

11 JUNE 1974

6.7 μ m



7335 7364 7363 7362 7361 7360 7359 7358 7357 7356 7355 7354 7353

12 JUNE 1974

11.5 μm

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7365 7364 7363 7362 7361 7360 7359 7358 7357 7356 7355 7354 7353

12 JUNE 1974

0.7 μ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7378 7377 7376 7375 7374 7373 7372 7371 7370 7369 7368 7367 7366

13 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



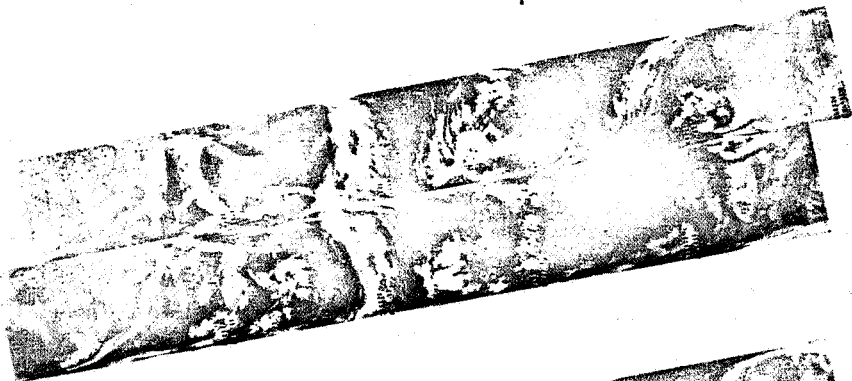
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7378 7377 7376 7375 7374 7373 7372 7371 7370 7369 7368 7367 7366

13 JUNE 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

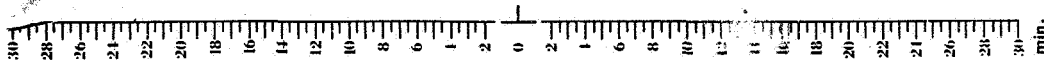
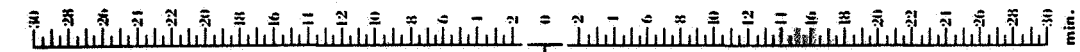


30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7392 7391 7390 7389 7388 7387 7386 7385 7384 7383 7382 7381 7380 7379

14 JUNE 1974

1.5 μ m



7392 7391 7390 7389 7388 7387 7386 7385 7384 7383 7382 7381 7380 7379

14 JUNE 1974

7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7405 7404 7403 7402 7401 7400 7399 7398 7397 7396 7395 7394 7393

15 JUNE 1974

0.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7405 7404 7403 7402 . 7401 7400 7399 7398 7397 7396 7395 7394 7393

15 JUNE 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7406 7407 7408 7409 7410 7411 7412 7413 7414 7415 7416 7417 7418 7419

16 JUNE 1974

0.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7419 7418 7417 7416 7415 7414 7413 7412 7411 7410 7409 7408 7407 7406

16 JUNE 1974

6 μ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7432 7431 7430 7429 7428 7427 7426 7425 7424 7423 7422 7421 7420

17 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



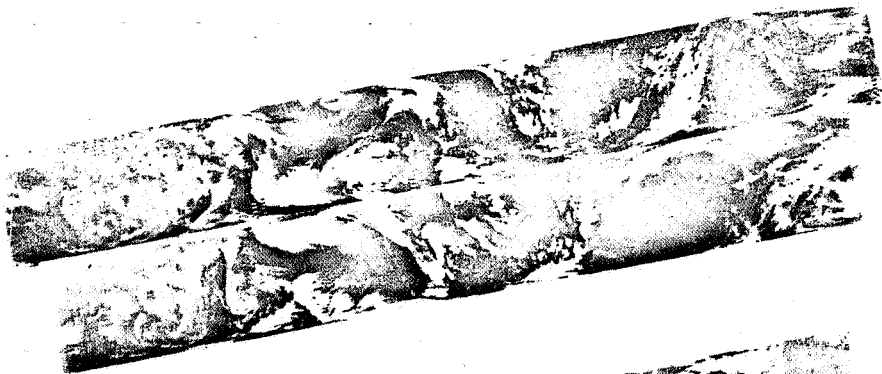
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7432 7431 7430 7429 7428 7427 7426 7425 7424 7423 7422 7421 7420

17 JUNE 1974

7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7445 7444 7443 7442 7441 7440 7439 7438 7437 7436 7435 7434 7433

18 JUNE 1974

11.5 μ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7445 7444 7443 7442 7441 7440 7439 7438 7437 7436 7435 7434 7433

18 JUNE 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

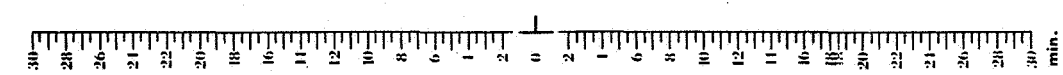
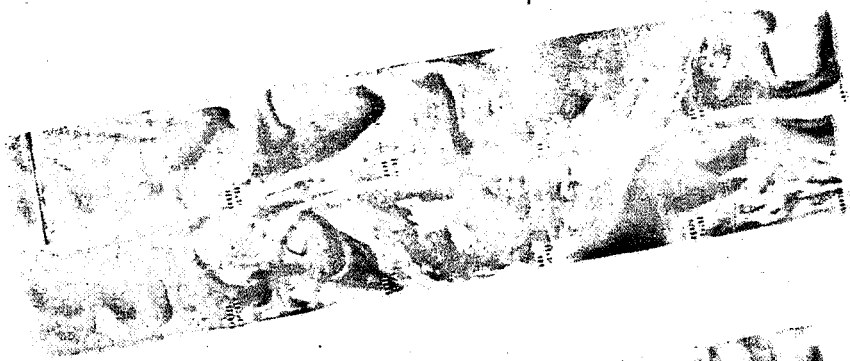
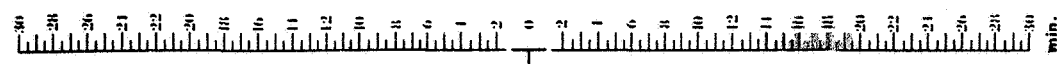


30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7459 7458 7457 7456 7455 7454 7453 7452 7451 7450 7449 7448 7447 7446

19 JUNE 1974

11.5 μ m



7446 7447 7448 7449 7450 7451 7452 7453 7454 7455 7456 7457 7458 7459

19 JUNE 1974
6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7472 7471 7470 7469 7468 7467 7466 7465 7464 7463 7462 7461 7460

20 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



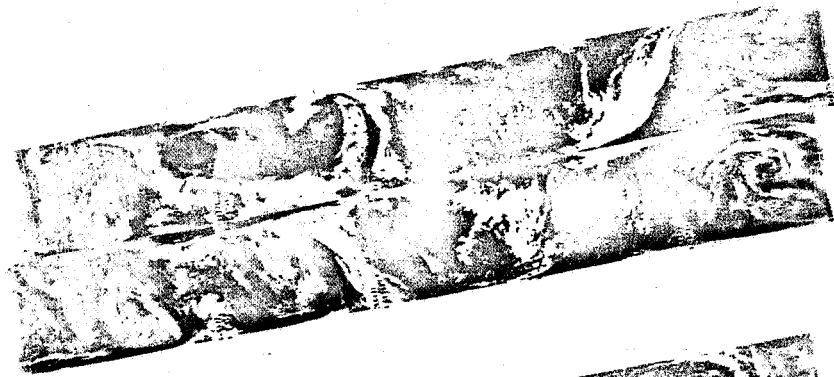
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7472 7471 7470 7469 7468 7467 7466 7465 7464 7463 7462 7461 7460

20 JUNE 1974

0.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7486 7485 7484 7483 7482 7481 7480 7479 7478 7477 7476 7475 7474 7473

21 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7486 7485 7484 7483 7482 7481 7480 7479 7478 7477 7476 7475 7474 7473

21 JUNE 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7499 7498 7497 7496 7495 7494 7493 7492 7491 7490 7489 7488 7487

22 JUNE 1974

15 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7499 7498 7497 7496 7495 7494 7493 7492 7491 7490 7489 7488 7487

22 JUNE 1974

6 AM

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7513 7512 7511 7510 7509 7508 7507 7506 7505 7504 7503 7502 7501 7500
23 JUNE 1974
11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7513 7512 7511 7510 7509 7508 7507 7506 7505 7504 7503 7502 7501 7500

23 JUNE 1974

7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7526 7525 7524 7523 7522 7521 7520 7519 7518 7517 7516 7515 7514

24 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



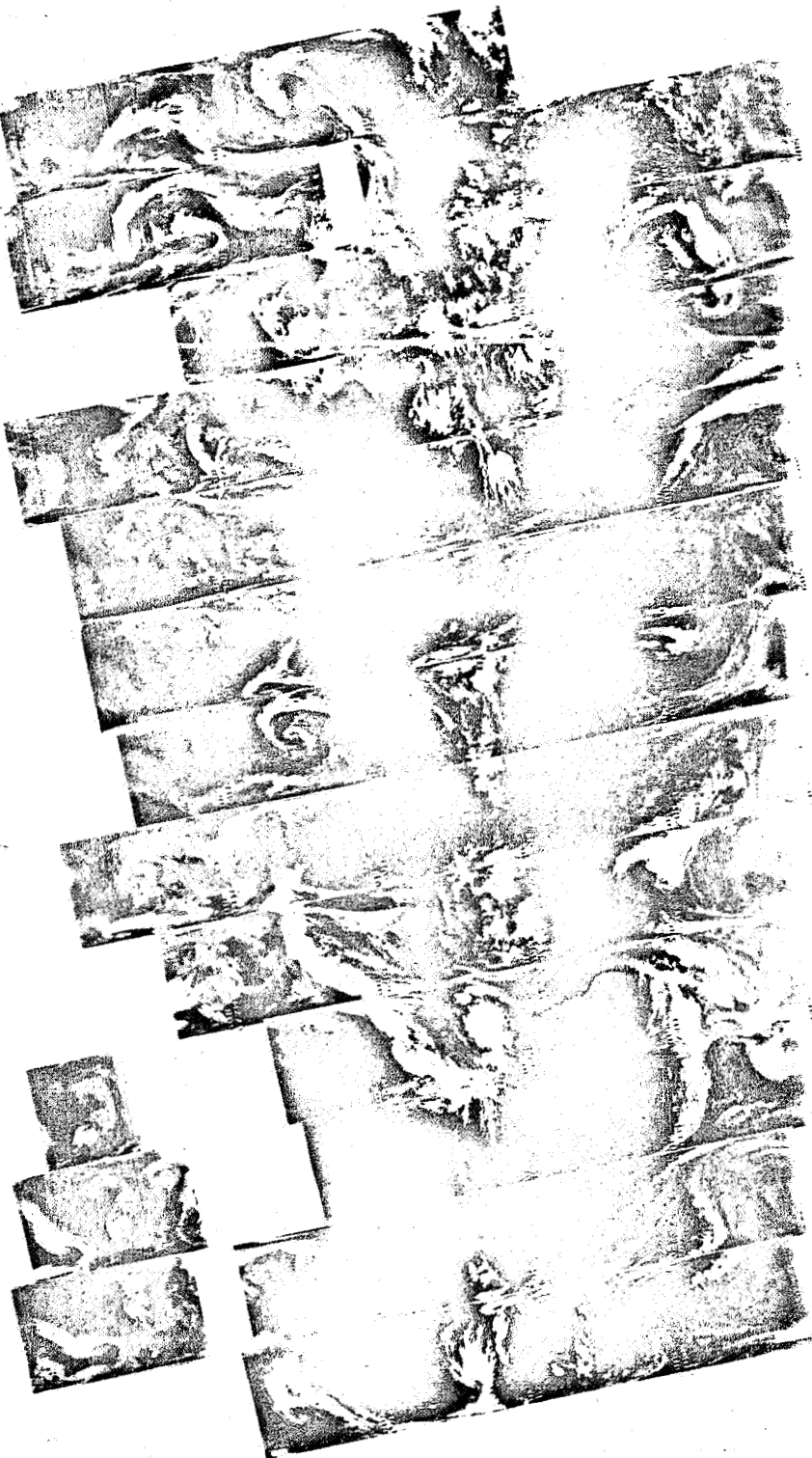
7526 7525 7524 7523 7522 7521 7520 7519 7518 7517 7516 7515 7514

24 JUNE 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



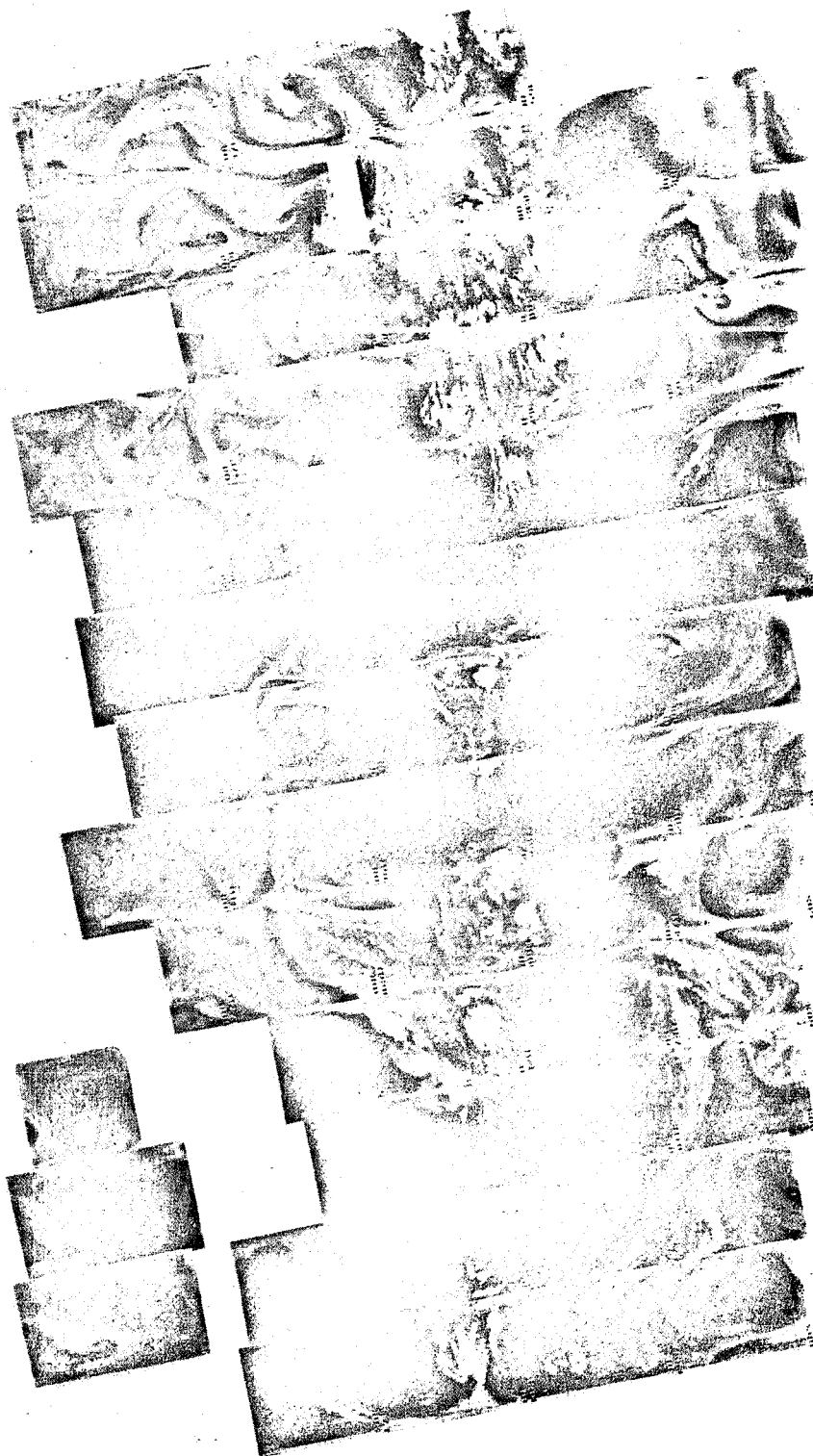
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7539 7538 7537 7536 7535 7534 7533 7532 7531 7530 7529 7528 7527

25 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-177

7539 7538 7537 7536 7535 7534 7533 7532 7531 7530 7529 7528 7527

25 JUNE 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7553 7552 7551 7550 7549 7548 7547 7546 7545 7544 7543 7542 7541 7540

26 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7553 7552 7551 7550 7549 7548 7547 7546 7545 7544 7543 7542 7541 7540

26 JUNE 1974

0.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7566 7565 7564 7563 7562 7561 7560 7559 7558 7557 7556 7555 7554
27 JUNE 1974
11.5 μ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

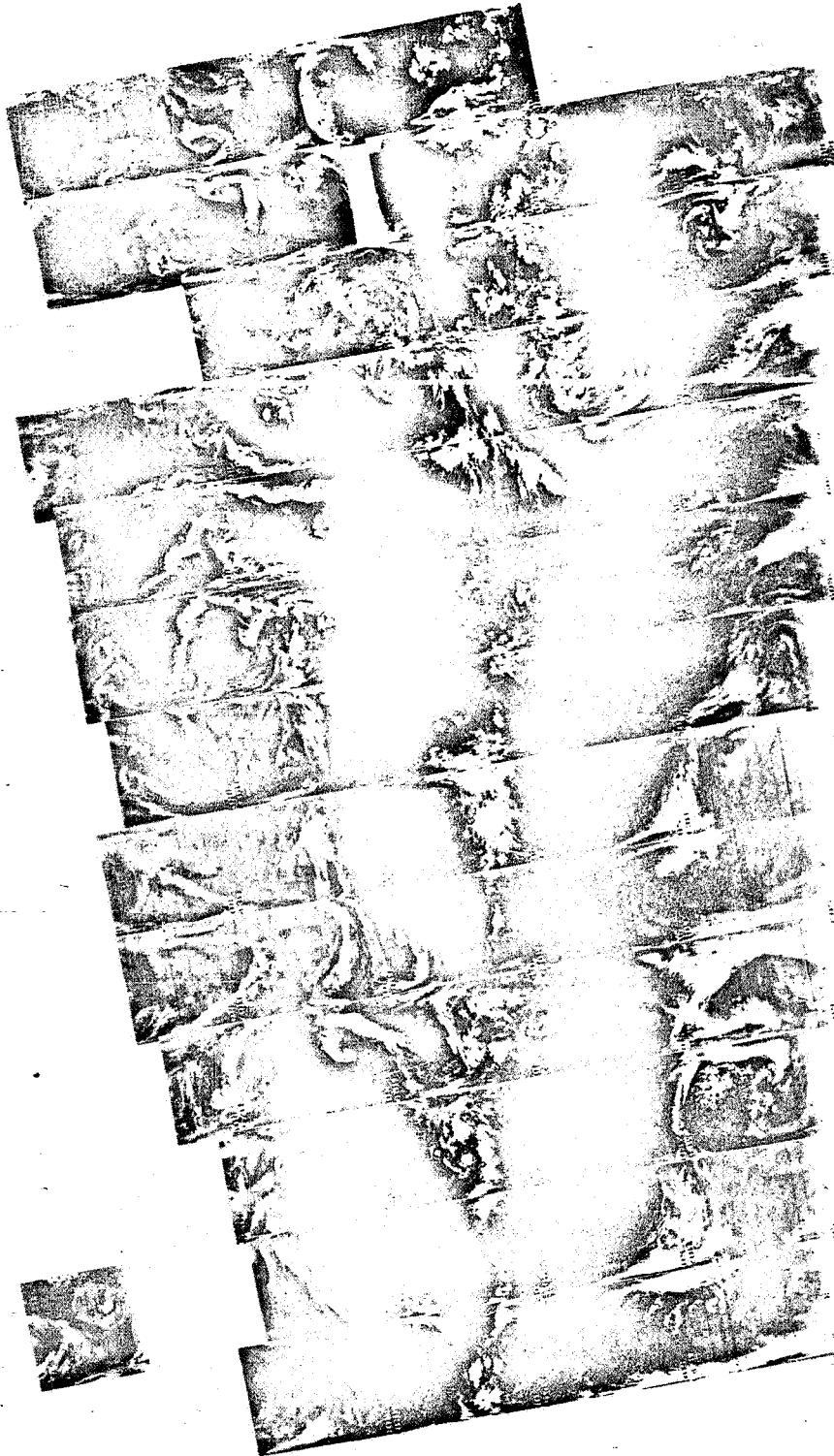
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7566 7565 7564 7563 7562 7561 7560 7559 7558 7557 7556 7555 7554

27 JUNE 1974

0.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7580 7579 7578 7577 7576 7575 7574 7573 7572 7571 7570 7569 7568 7567

28 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7580 7579 7578 7577 7576 7575 7574 7573 7572 7571 7570 7569 7568 7567

28 JUNE 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



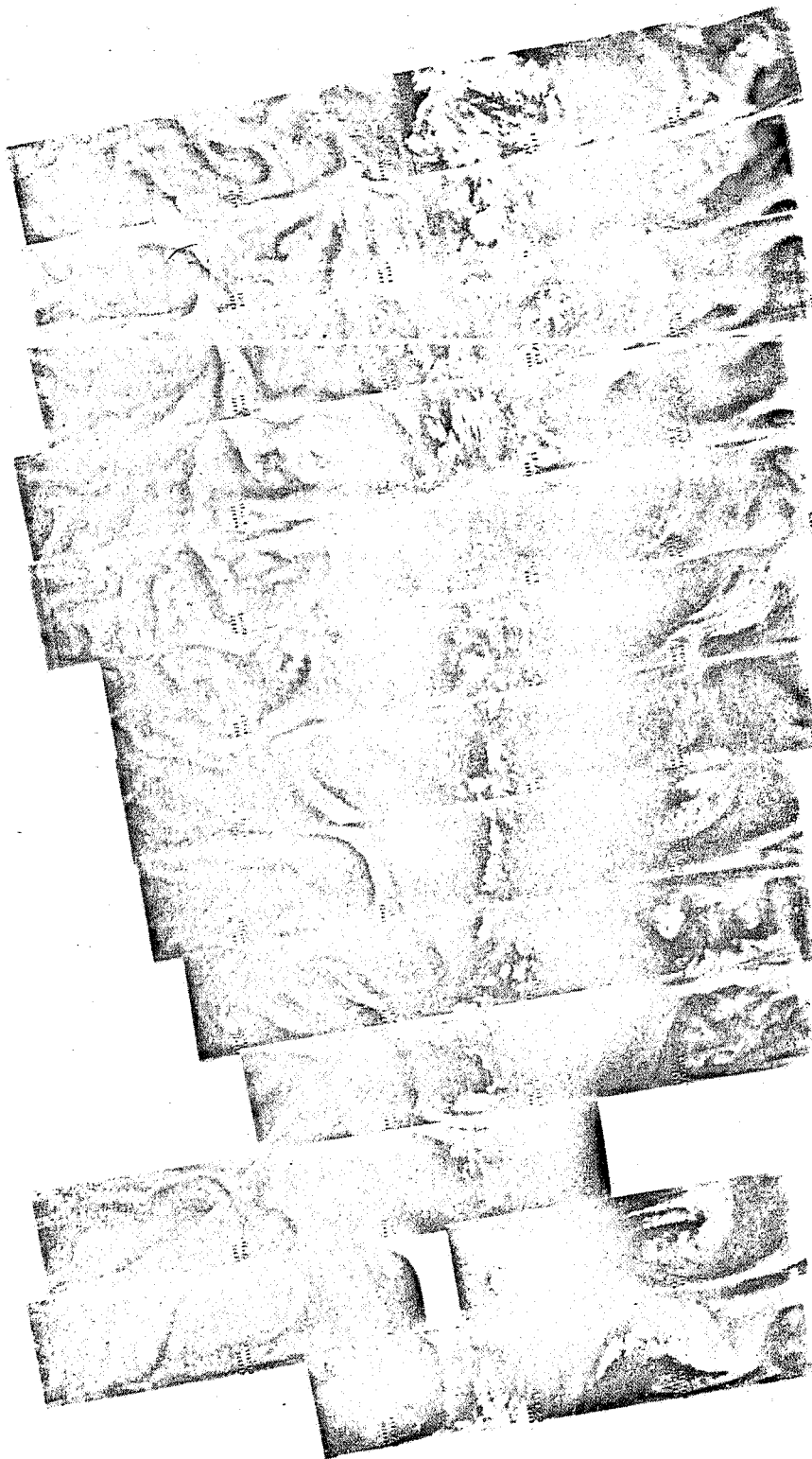
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30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7593 7592 7591 7590 7589 7588 7587 7586 7585 7584 7583 7582 7581

29 JUNE 1974
11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7593 7592 7591 7590 7589 7588 7587 7586 7585 7584 7583 7582 7581

29 JUNE 1974

6.7 μ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7607 7606 7605 7604 7603 7602 7601 7600 7599 7598 7597 7596 7595 7594

30 JUNE 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7607 7606 7605 7604 7603 7602 7601 7600 7599 7598 7597 7596 7595 7594

30 JUNE 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7620 7619 7618 7617 7616 7615 7614 7613 7612 7611 7610 7609 7608

1 JULY 1974

1" 5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



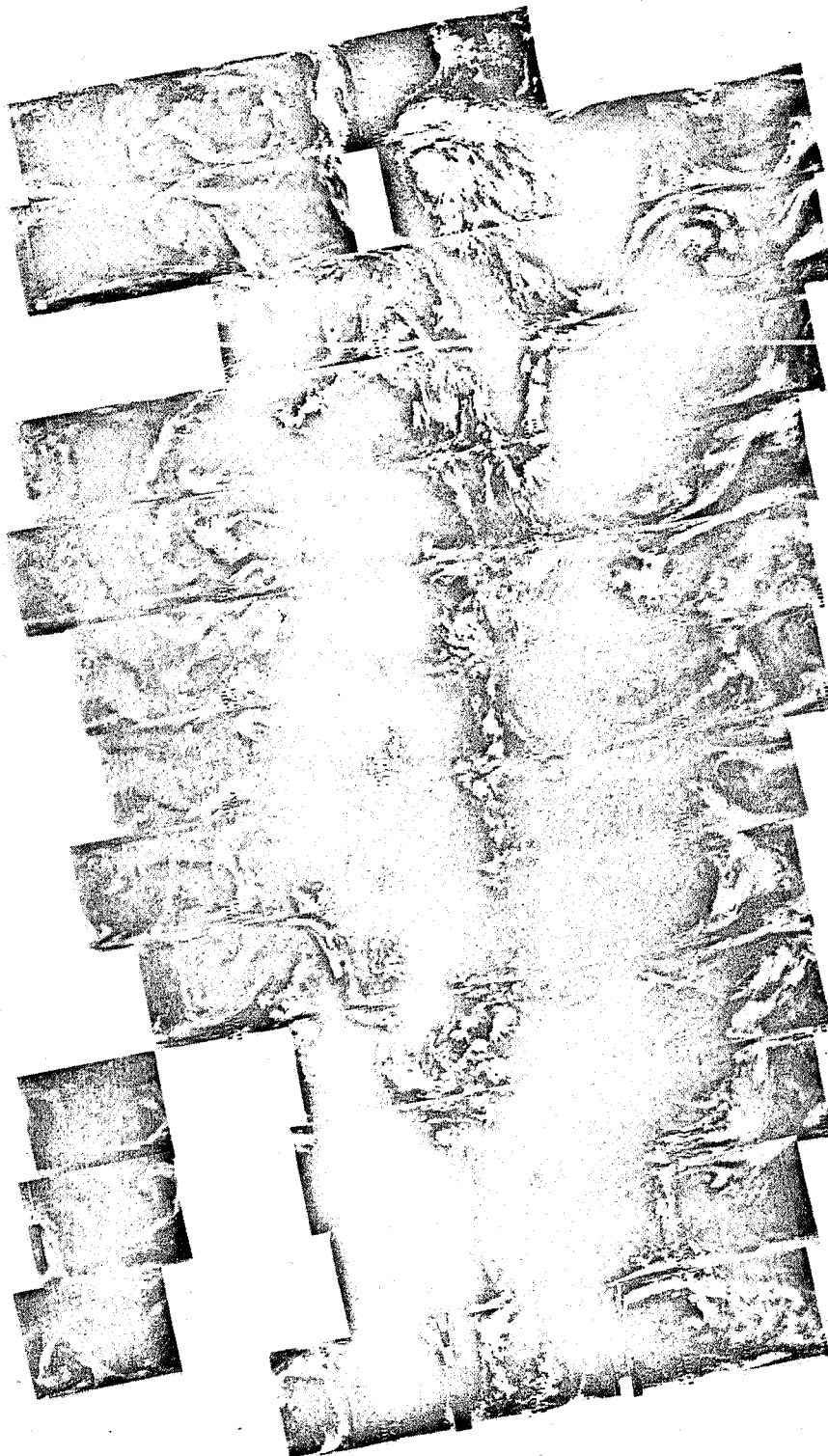
7620 7619 7618 7617 7616 7615 7614 7613 7612 7611 7610 7609 7608

1 JULY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



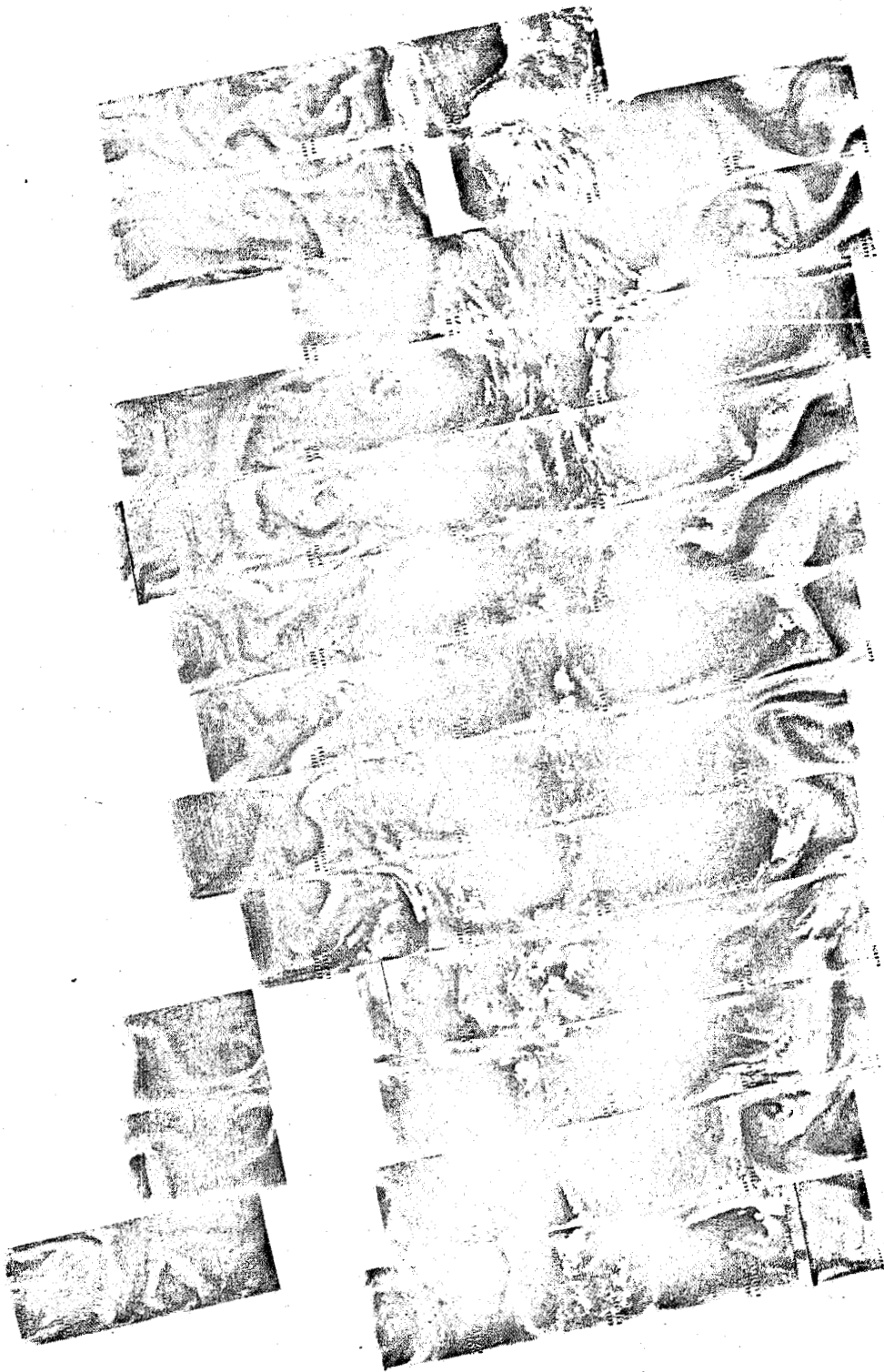
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7633 7632 7631 7630 7629 7628 7627 7626 7625 7624 7623 7622 7621

2 JULY 1974

0.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



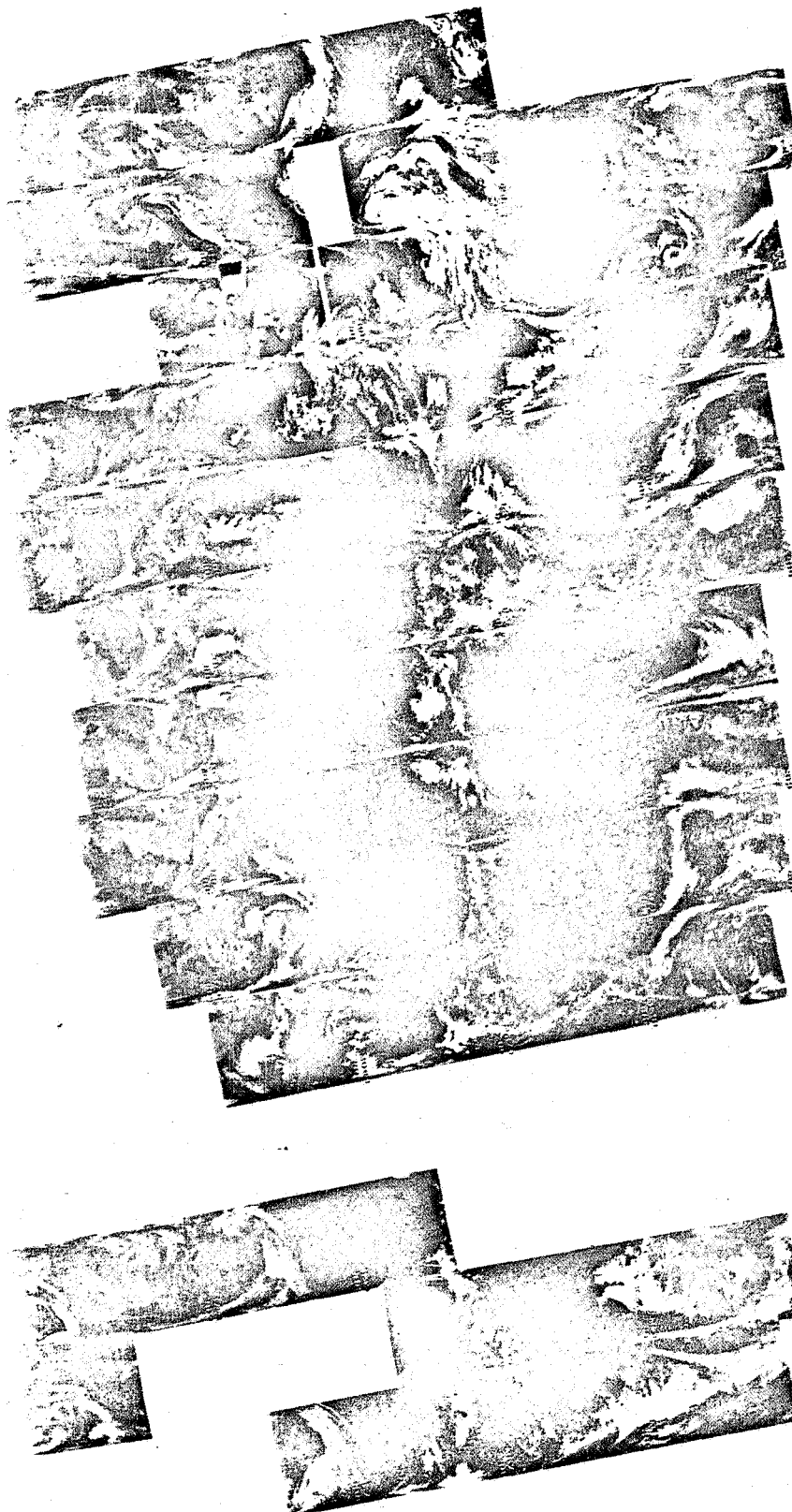
7633 7632 7631 7630 7629 7628 7627 7626 7625 7624 7623 7622 7621

2 JULY 1974

7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7647 7646 7645 7644 7643 7642 7641 7640 7639 7638 7637 7636 7635 7634

3 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7647 7646 7645 7644 7643 7642 7641 7640 7639 7638 7637 7636 7635 7634

3 JULY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



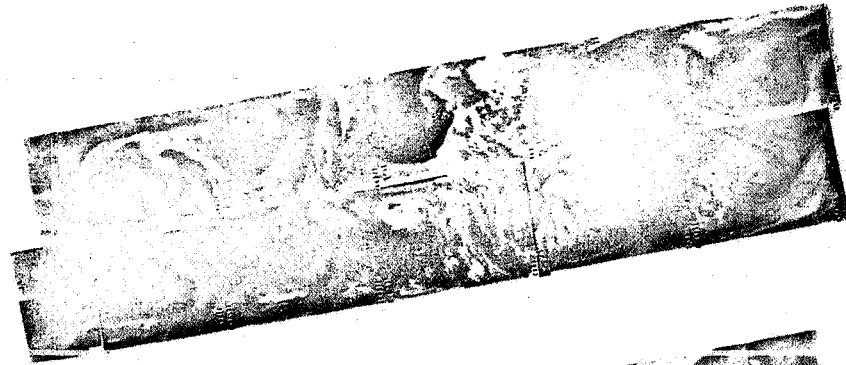
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7660 7659 7658 7657 7656 7655 7654 7653 7652 7651 7650 7649 7648

4 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7660 7659 7658 7657 7656 7655 7654 7653 7652 7651 7650 7649 7648

4 JULY 1974

6.7 μ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7674 7673 7672 7671 7670 7669 7668 7667 7666 7665 7664 7663 7662 7661

5 JULY 1974

11 5 μ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

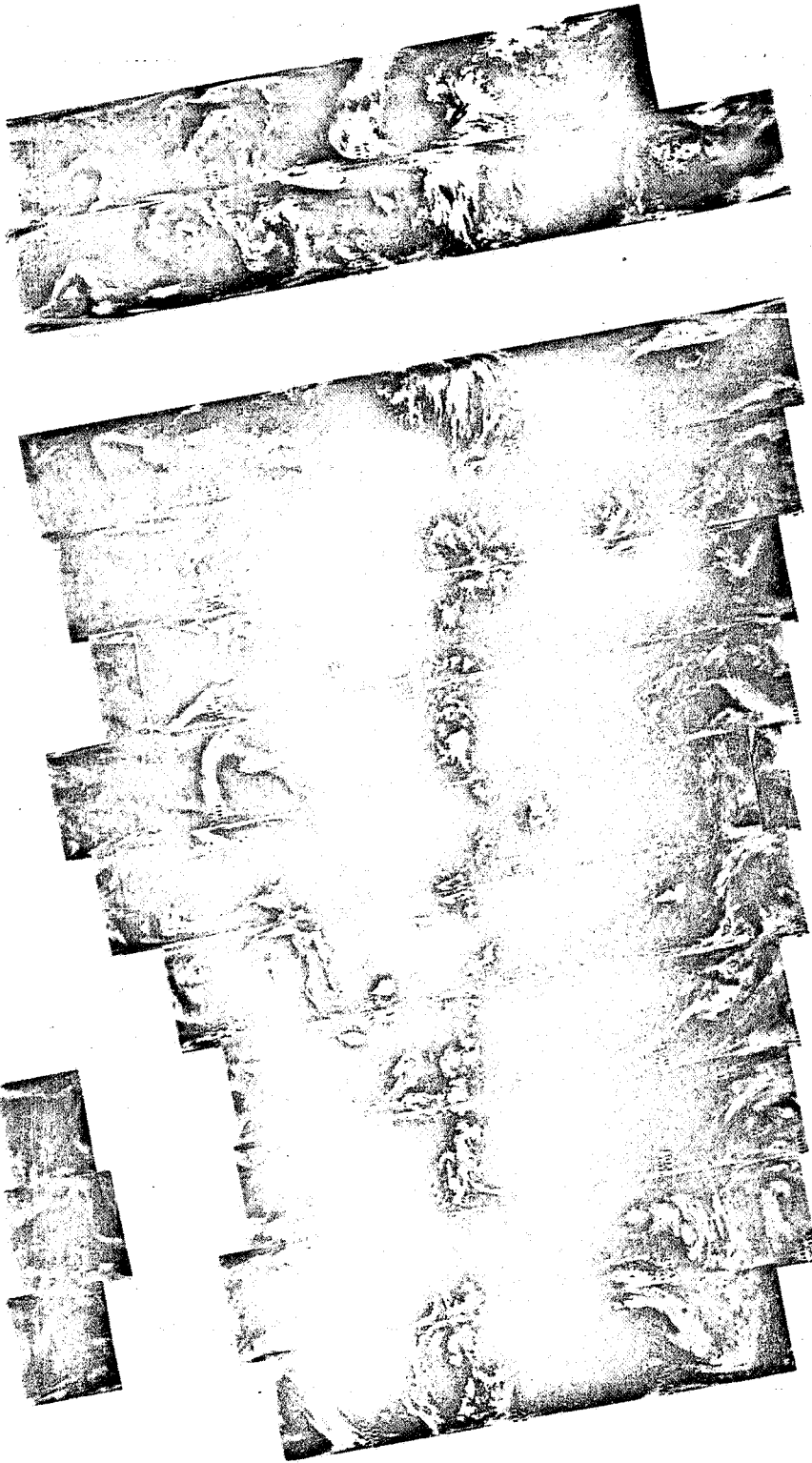
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7674 7673 7672 7671 7670 7669 7668 7667 7666 7665 7664 7663 7662 7661

5 JULY 1974

7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7687 7686 7685 7684 7683 7682 7681 7680 7679 7678 7677 7676 7675

6 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



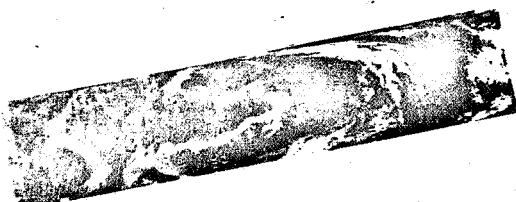
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7687 7686 7685 7684 7683 7682 7681 7680 7679 7678 7677 7676 7675

6 JULY 1974

0.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



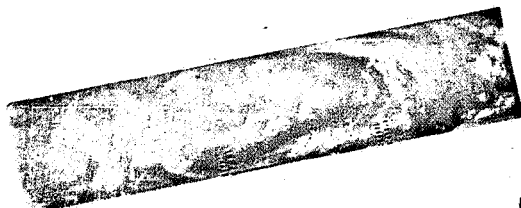
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7701 7700 7699 7698 7697 7696 7695 7694 7693 7692 7691 7690 7689 7688

7 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7701 7700 7699 7698 7697 7696 7695 7694 7693 7692 7691 7690 7689 7688

7 JULY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7714 7713 7712 7711 7710 7709 7708 7707 7706 7705 7704 7703 7702

8 JULY 1974

1.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7727 7726 7725 7724 7723 7722 7721 7720 7719 7718 7717 7716 7715

9 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7727 7726 7725 7724 7723 7722 7721 7720 7719 7718 7717 7716 7715

9 JULY 1974

7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7741 7740 7739 7738 7737 7736 7735 7734 7733 7732 7731 7730 7729 7728

10 JULY 1974
11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7741 7740 7739 7738 7737 7736 7735 7734 7733 7732 7731 7730 7729 7728

10 JULY 1974

f 7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7754 7753 7752 7751 7750 7749 7748 7747 7746 7745 7744 7743 7742

11 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7754 7753 7752 7751 7750 7749 7748 7747 7746 7745 7744 7743 7742

11 JULY 1974

7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



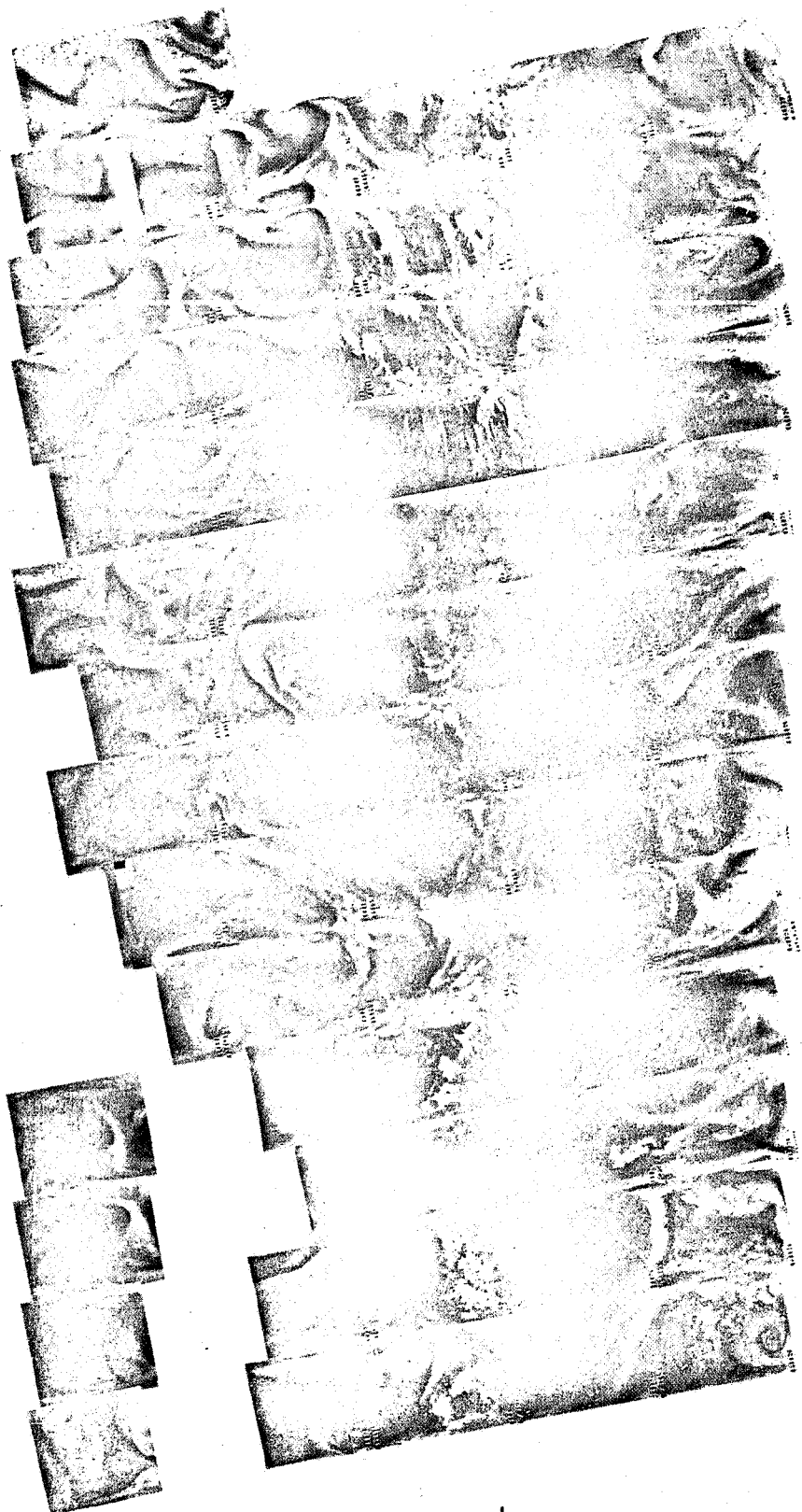
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7768 7767 7766 7765 7764 7763 7762 7761 7760 7759 7758 7757 7756 7755

12 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7768 7767 7766 7765 7764 7763 7762 7761 7760 7759 7758 7757 7756 7755

12 JULY 1974

0.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

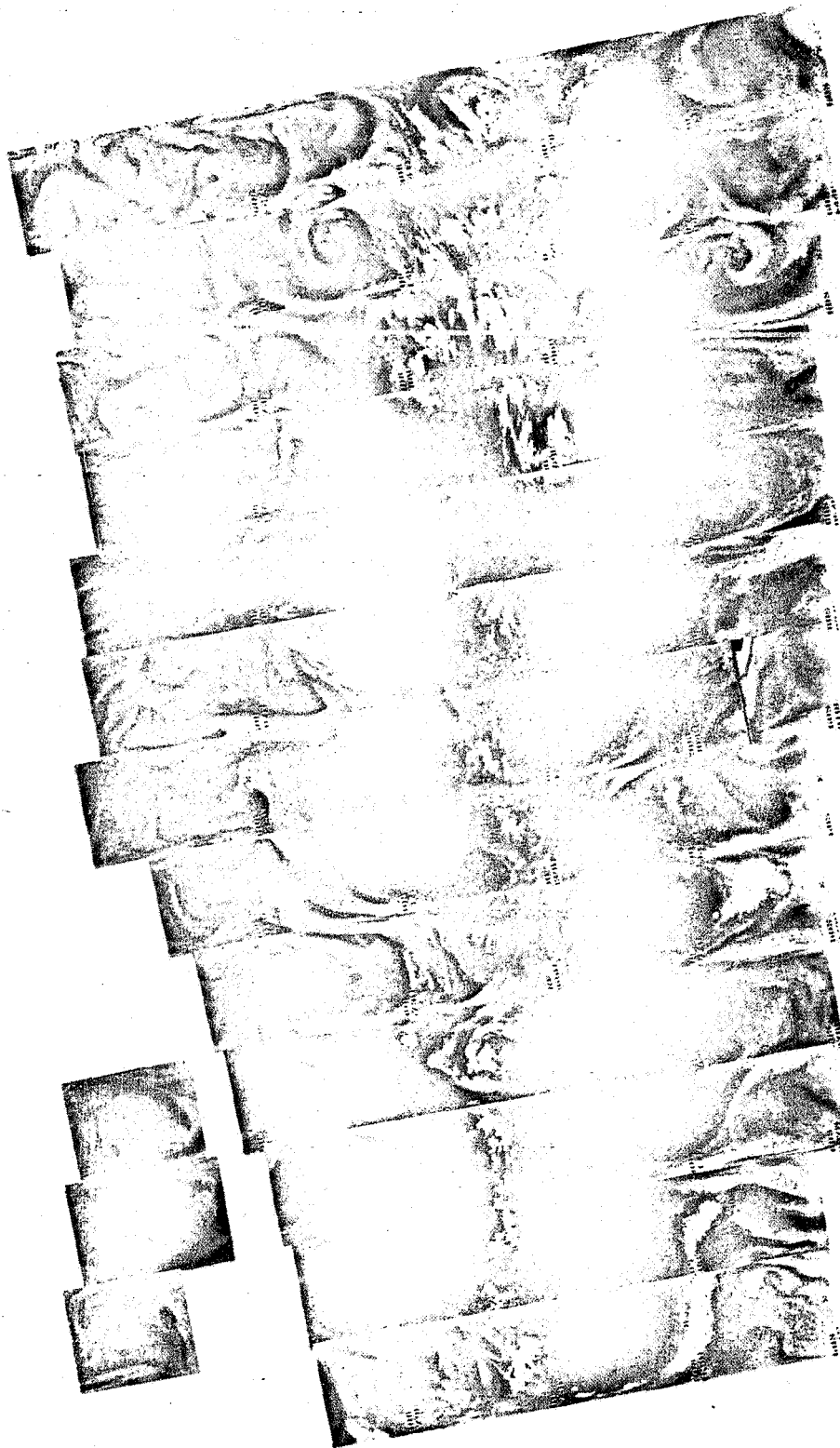


7781 7780 7779 7778 7777 7776 7775 7774 7773 7772 7771 7770 7769

13 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7781 7780 7779 7778 7777 7776 7775 7774 7773 7772 7771 7770 7769

13 JULY 1974

0.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



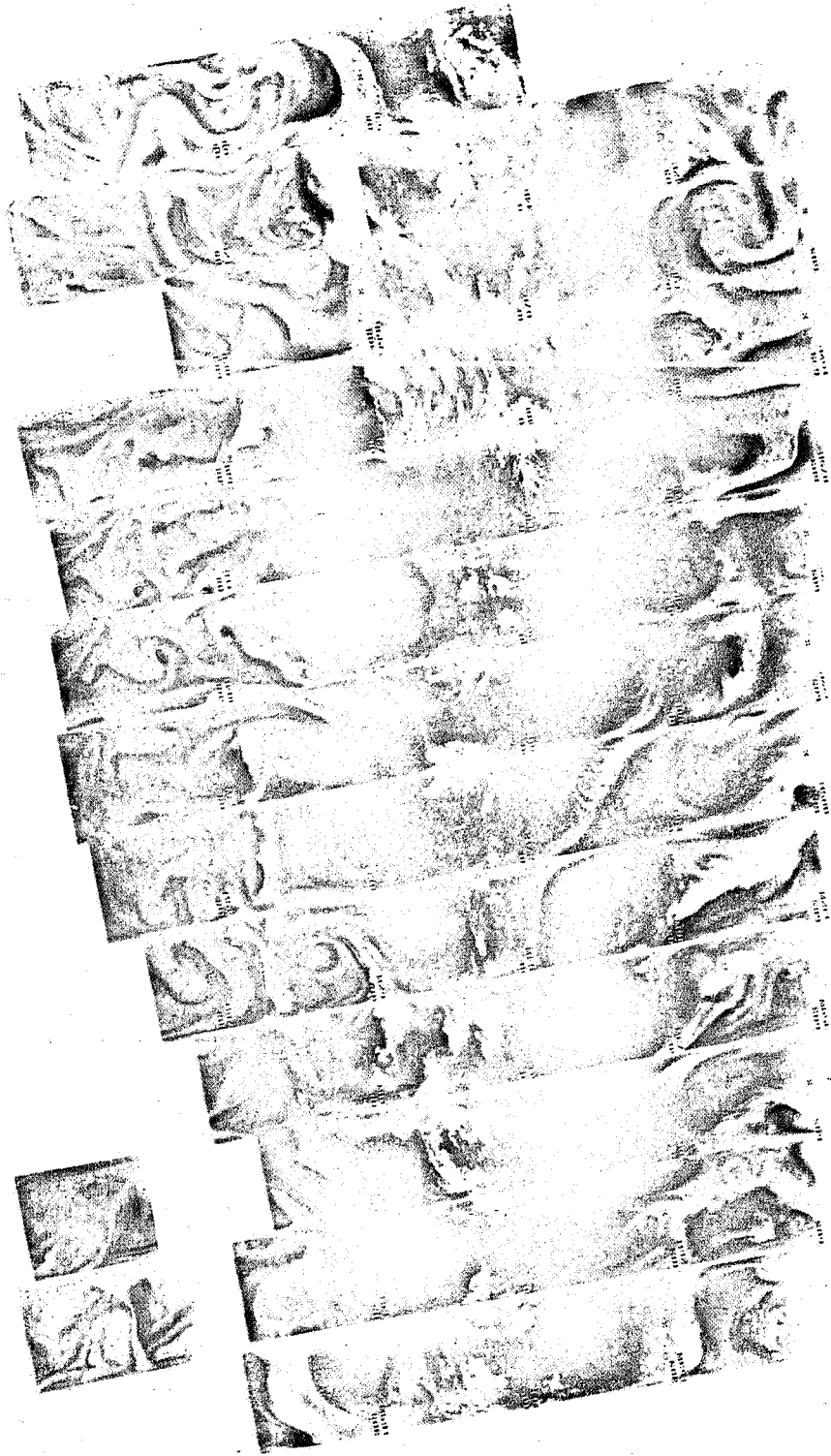
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7794 7793 7792 7791 7790 7789 7788 7787 7786 7785 7784 7783 7782

14 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7794 7793 7792 7791 7790 7789 7788 7787 7786 7785 7784 7783 7782
14 JULY 1974
6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7808 7807 7806 7805 7804 7803 7802 7801 7800 7799 7798 7797 7796 7795

15 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



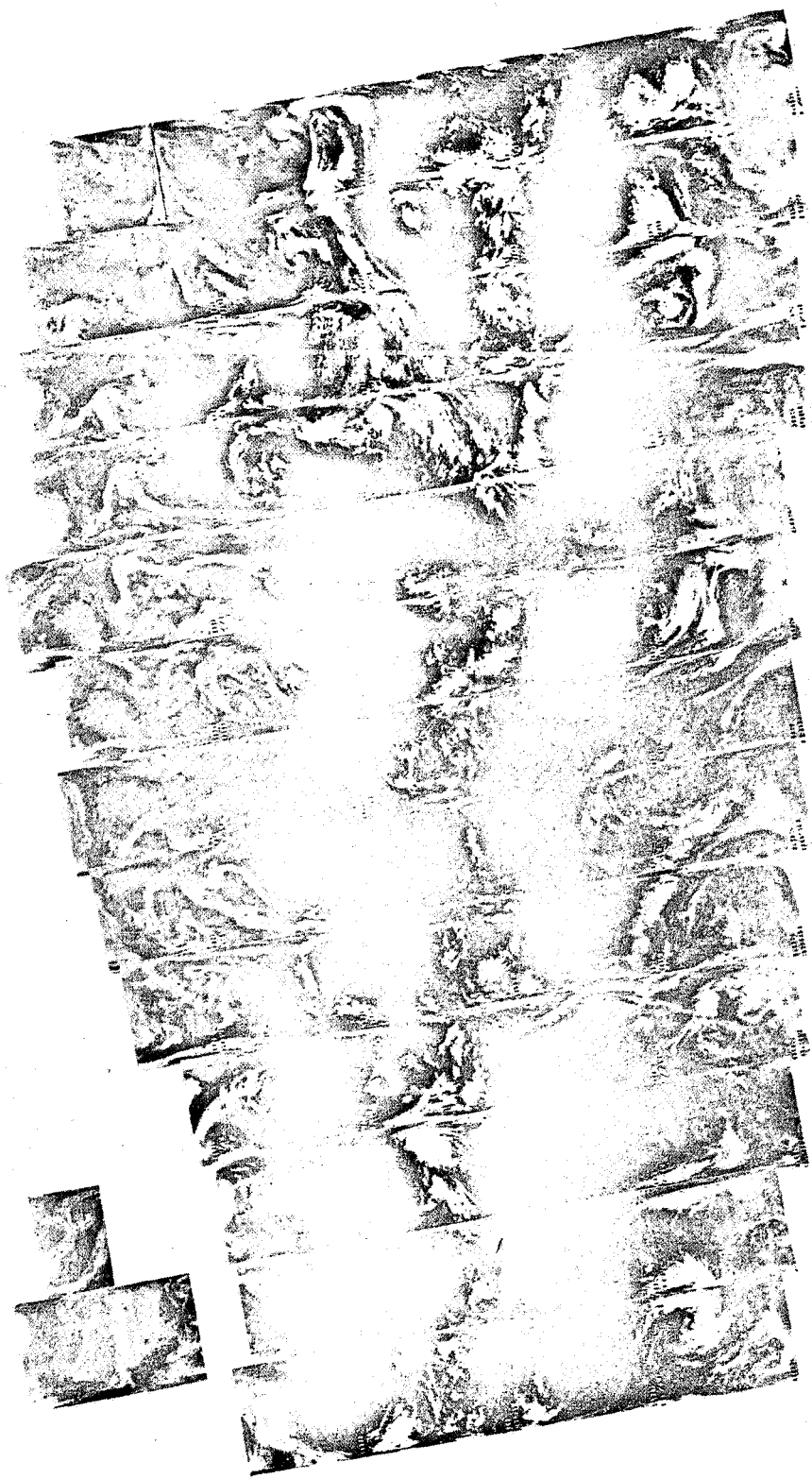
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7808 7807 7806 7805 7804 7803 7802 7801 7800 7799 7798 7797 7796 7795

15 JULY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7821 7820 7819 7818 7817 7816 7815 7814 7813 7812 7811 7810 7809

16 JULY 1974

11 5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7821 7820 7819 7818 7817 7816 7815 7814 7813 7812 7811 7810 7809

16 JULY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7835 7834 7833 7832 7831 7830 7829 7828 7827 7826 7825 7824 7823 7822

17 JULY 1974

5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-221

7835 7834 7833 7832 7831 7830 7829 7828 7827 7826 7825 7824 7823 7822

17 JULY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7848 7847 7846 7845 7844 7843 7842 7841 7840 7839 7838 7837 7836

18 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



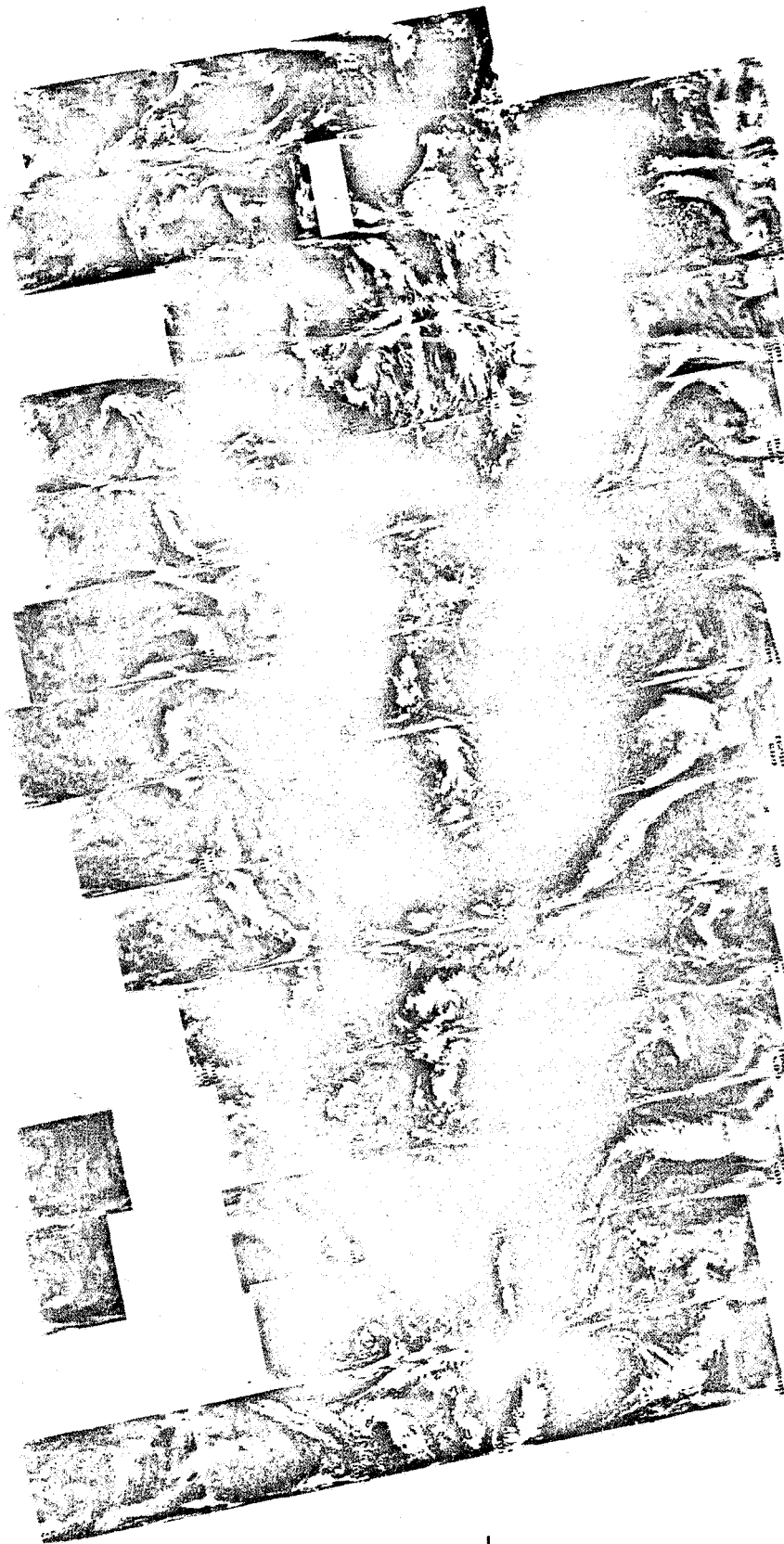
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7848 7847 7846 7845 7844 7843 7842 7841 7840 7839 7838 7837 7836

18 JULY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7862 7861 7860 7859 7858 7857 7856 7855 7854 7853 7852 7851 7850 7849

19 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

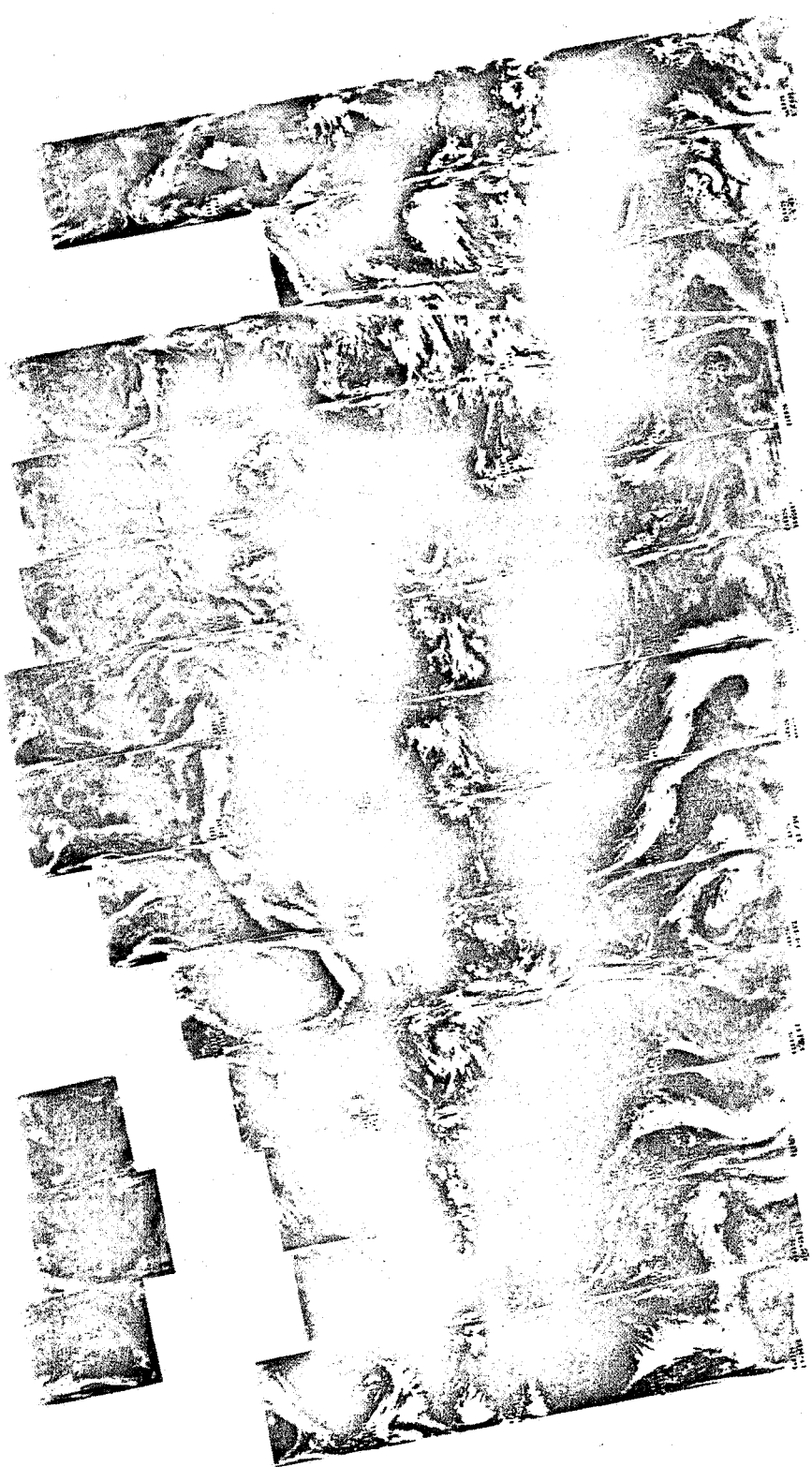
4-225

7862 7861 7860 7859 7858 7857 7856 7855 7854 7853 7352 7851 7850 7849

19 JULY 1974

6 7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7875 7874 7873 7872 7871 7870 7869 7868 7867 7866 7865 7864 7863

20 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-227

7875 7874 7873 7872 7871 7870 7869 7868 7867 7866 7865 7864 7863

20 JULY 1974

μm

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7888 7887 7886 7885 7884 7883 7882 7881 7880 7379 7878 7877 7876

21 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

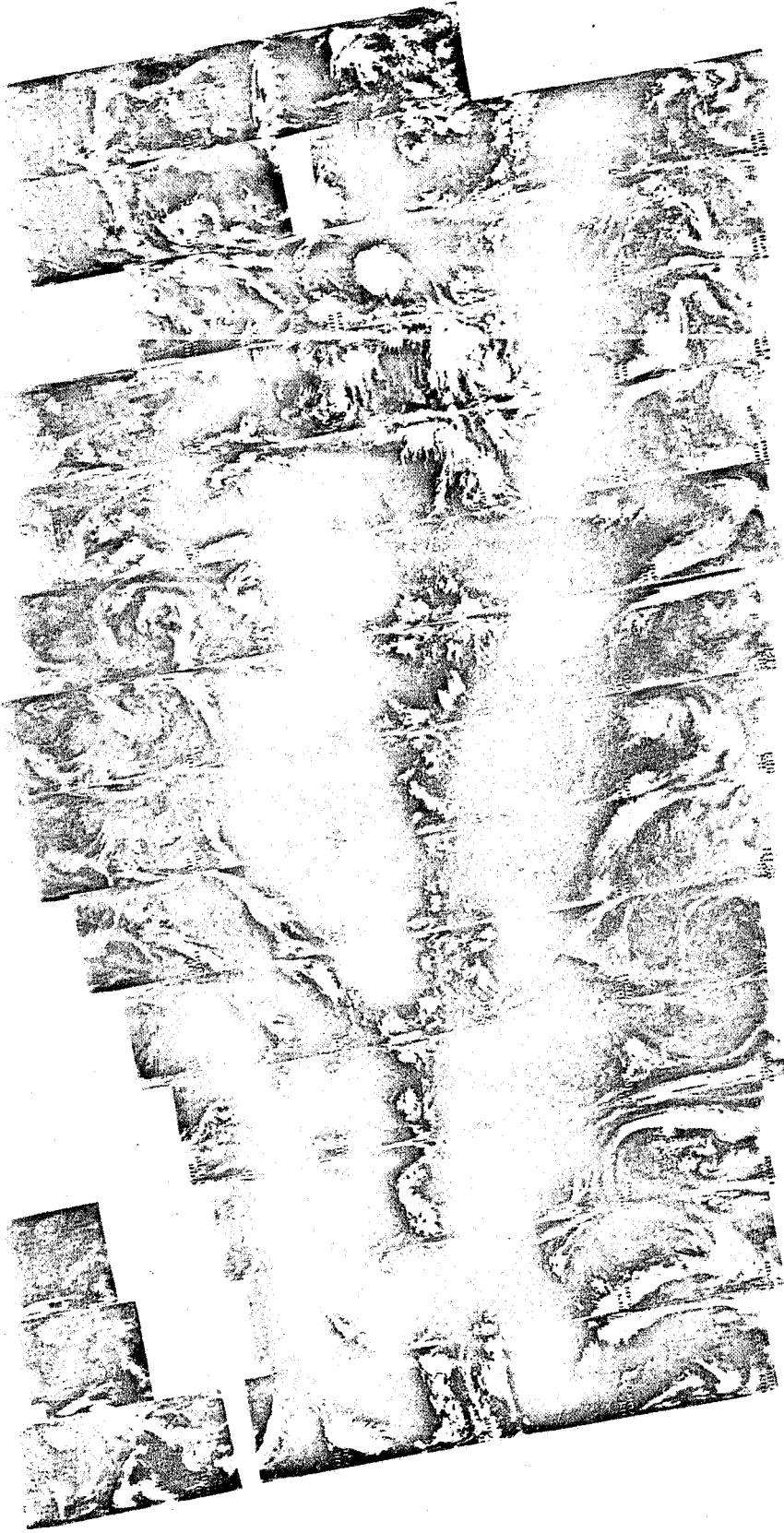
4-229

7888 7887 7886 7885 7884 7883 7882 7881 7880 7879 7878 7877 7876

21 JULY 1974

6 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7902 7901 7900 7899 7898 7897 7896 7895 7894 7893 7892 7891 7890 7889

22 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7902 7901 7900 7899 7898 7897 7896 7895 7894 7893 7892 7891 7890 7889

22 JULY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



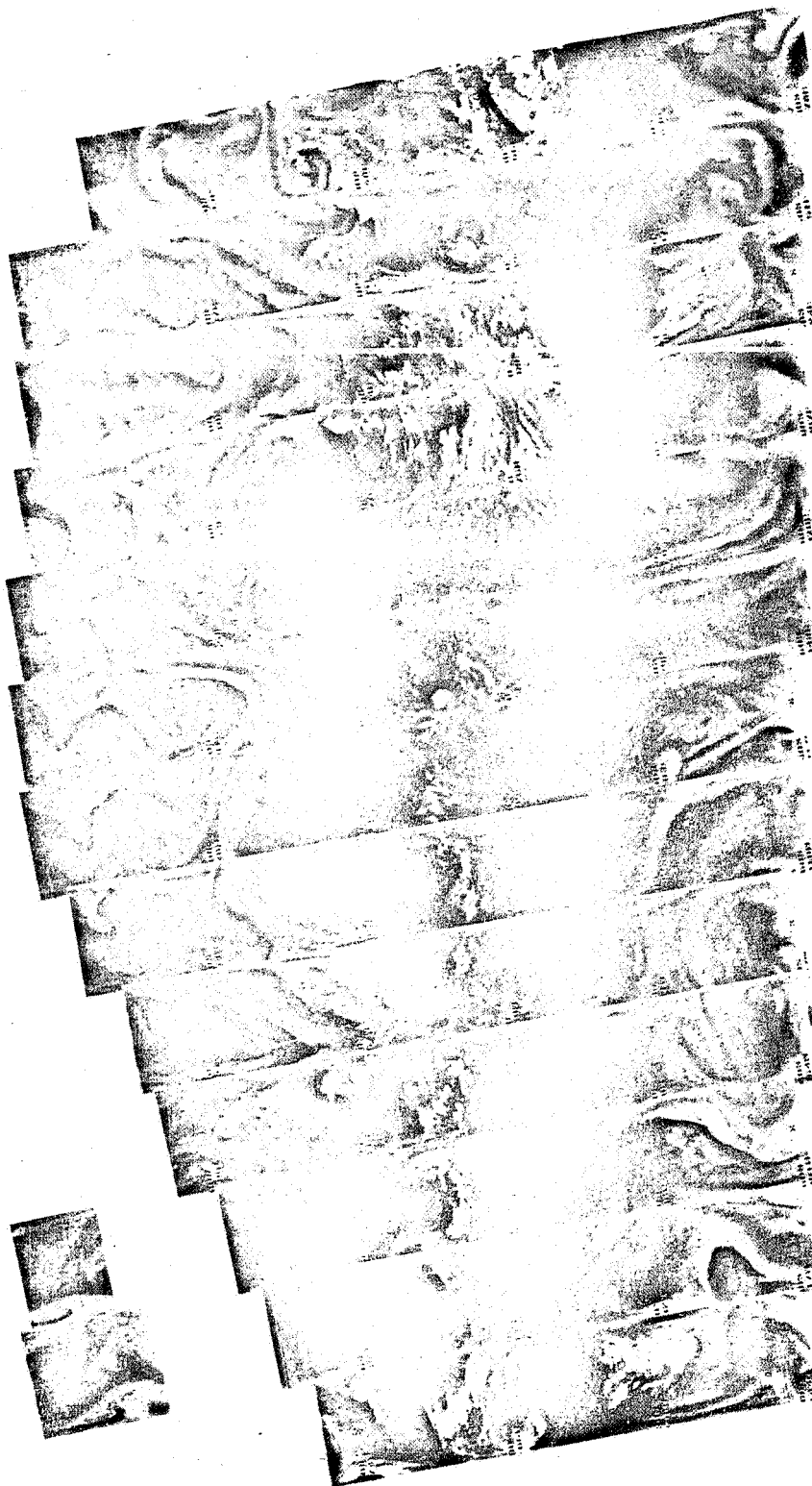
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7915 7914 7913 7912 7911 7910 7909 7908 7907 7906 7905 7904 7903

23 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7915 7914 7913 7912 7911 7910 7909 7908 7907 7906 7905 7904 7903

23 JULY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



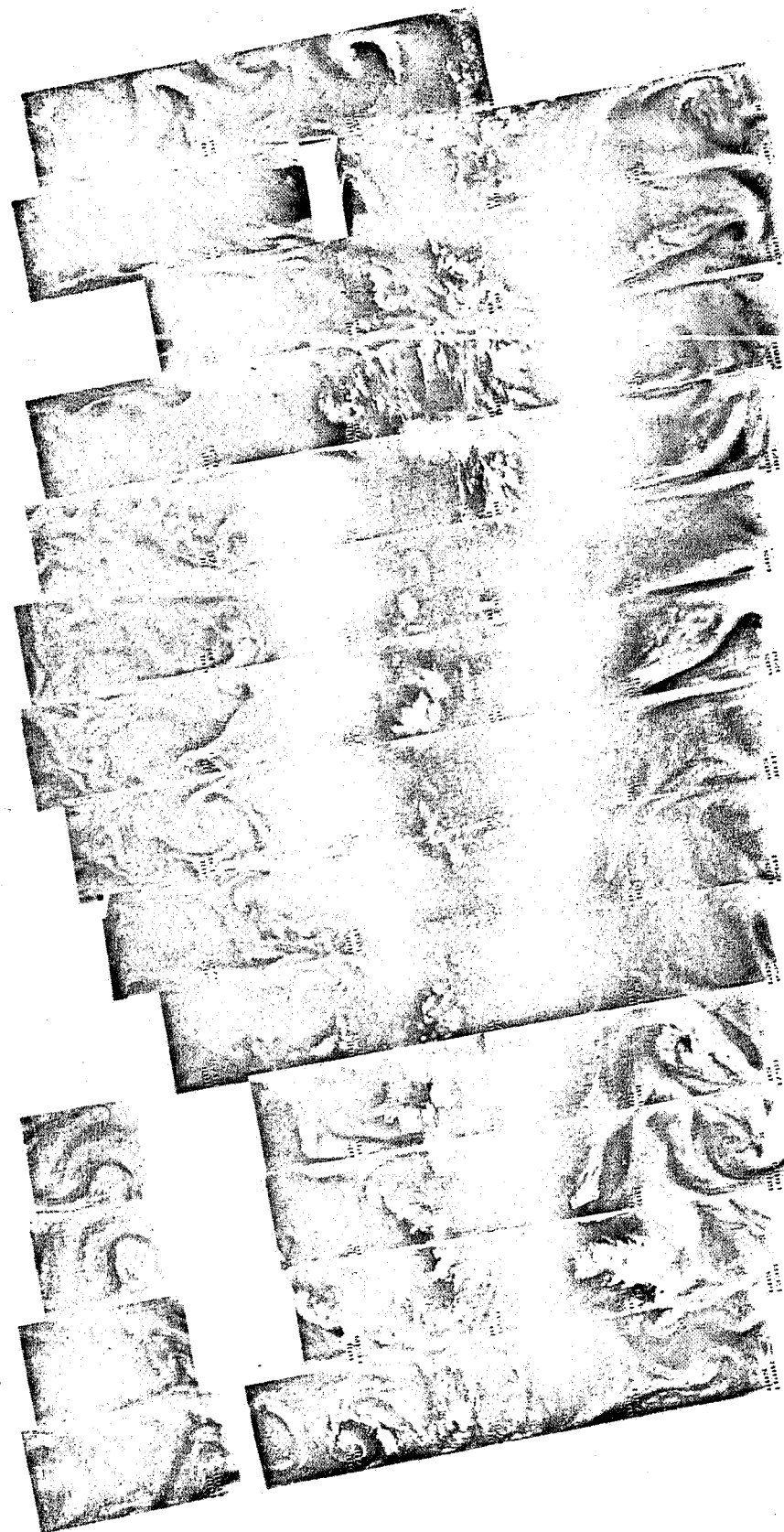
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7929 7928 7927 7926 7925 7924 7923 7922 7921 7920 7919 7918 7917 7916

24 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

7929 7928 7927 7926 7925 7924 7923 7922 7921 7920 7919 7918 7917 7916

24 JULY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



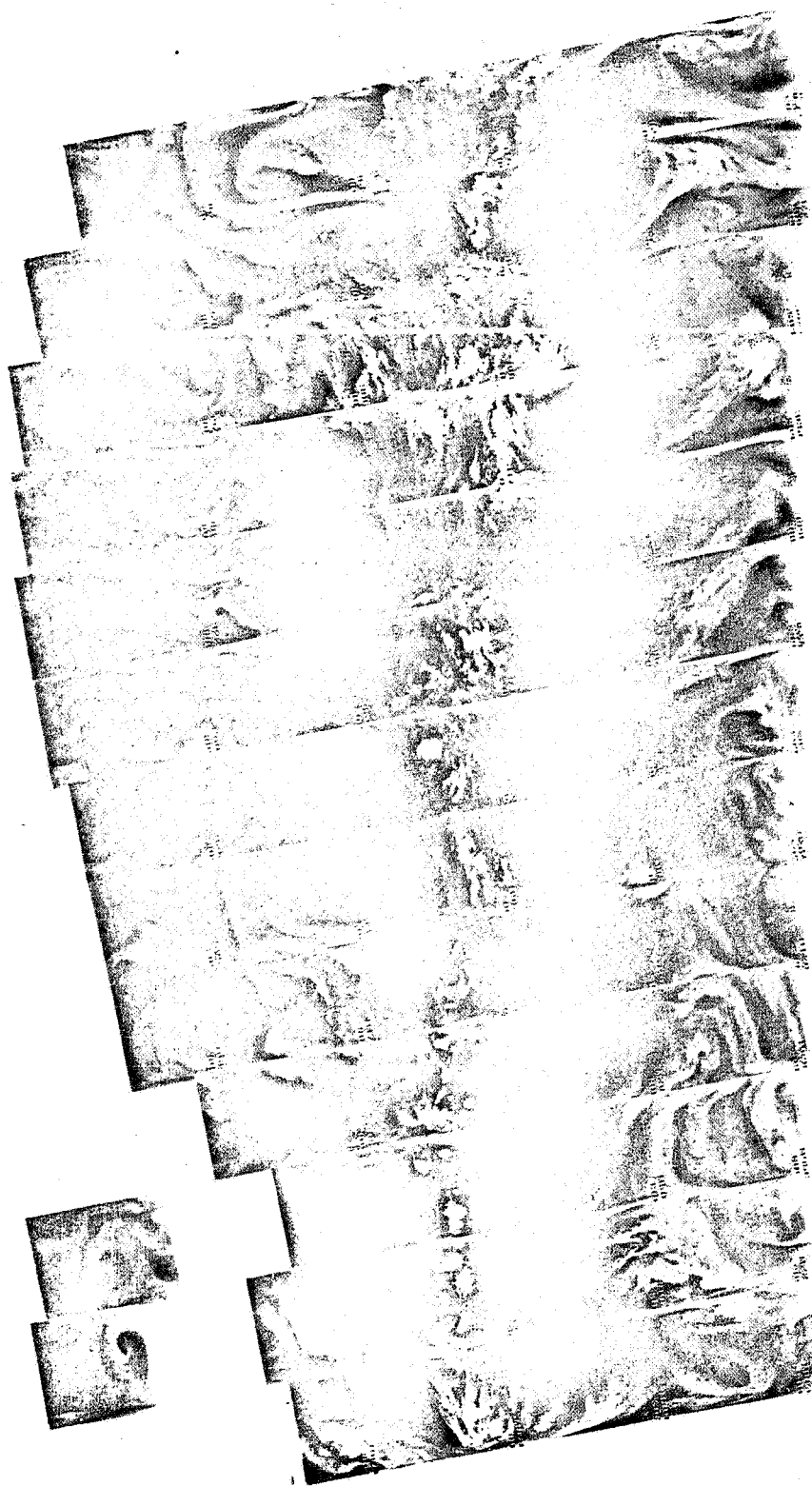
7942 7941 7940 7939 7938 7937 7936 7935 7934 7933 7932 7931 7930

25 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



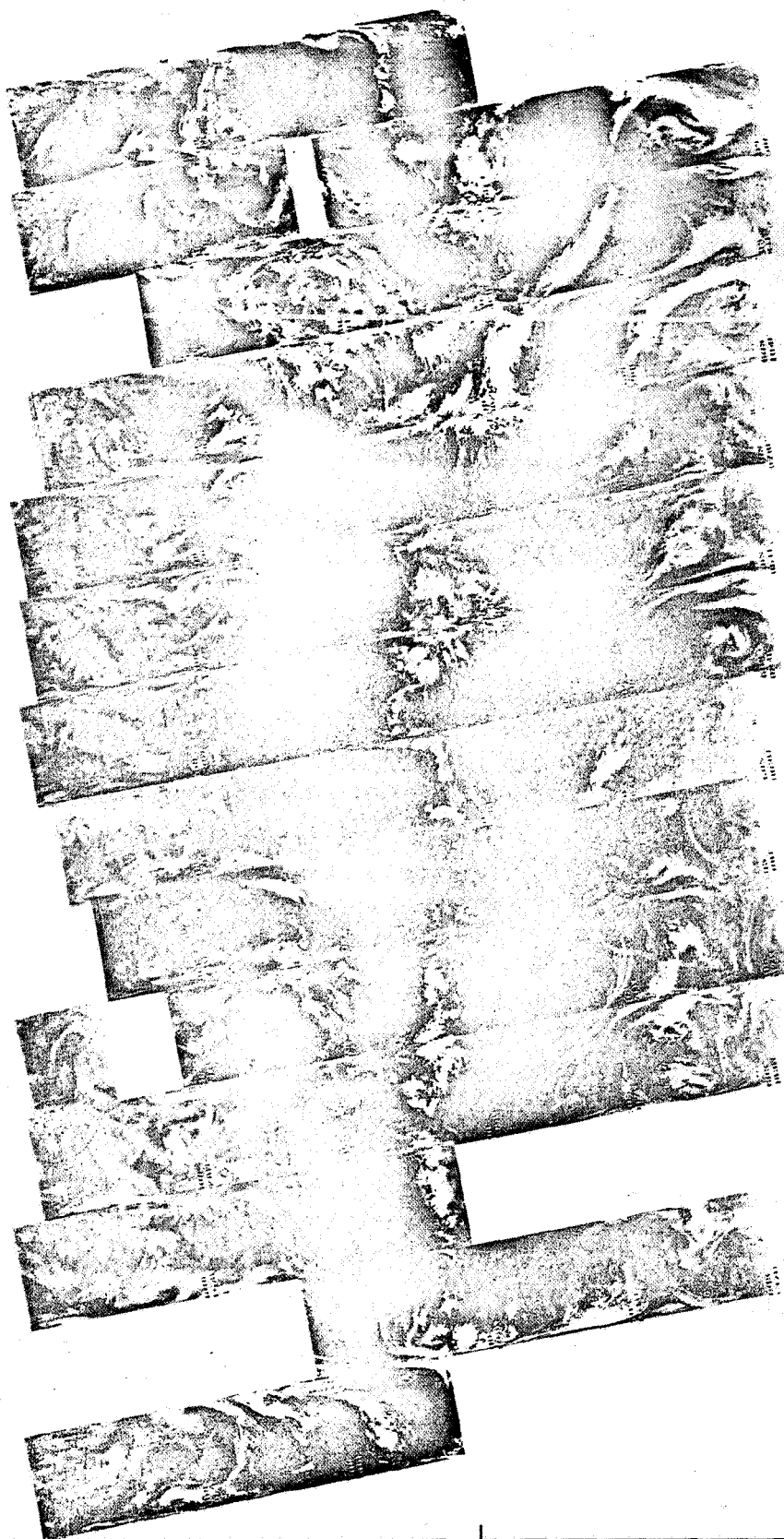
7942 7941 7940 7939 7938 7937 7936 7935 7934 7933 7932 7931 7930

25 JULY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7956 7955 7954 7953 7952 7951 7950 7949 7948 7947 7946 7945 7944 7943

26 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7956 7955 7954 7953 7952 7951 7950 7949 7948 7947 7946 7945 7944 7943

26 JULY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7969 7968 7967 7966 7965 7964 7963 7962 7961 7960 7959 7958 7957

27 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7969 7968 7967 7966 7965 7964 7963 7962 7961 7960 7959 7958 7957

27 JULY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



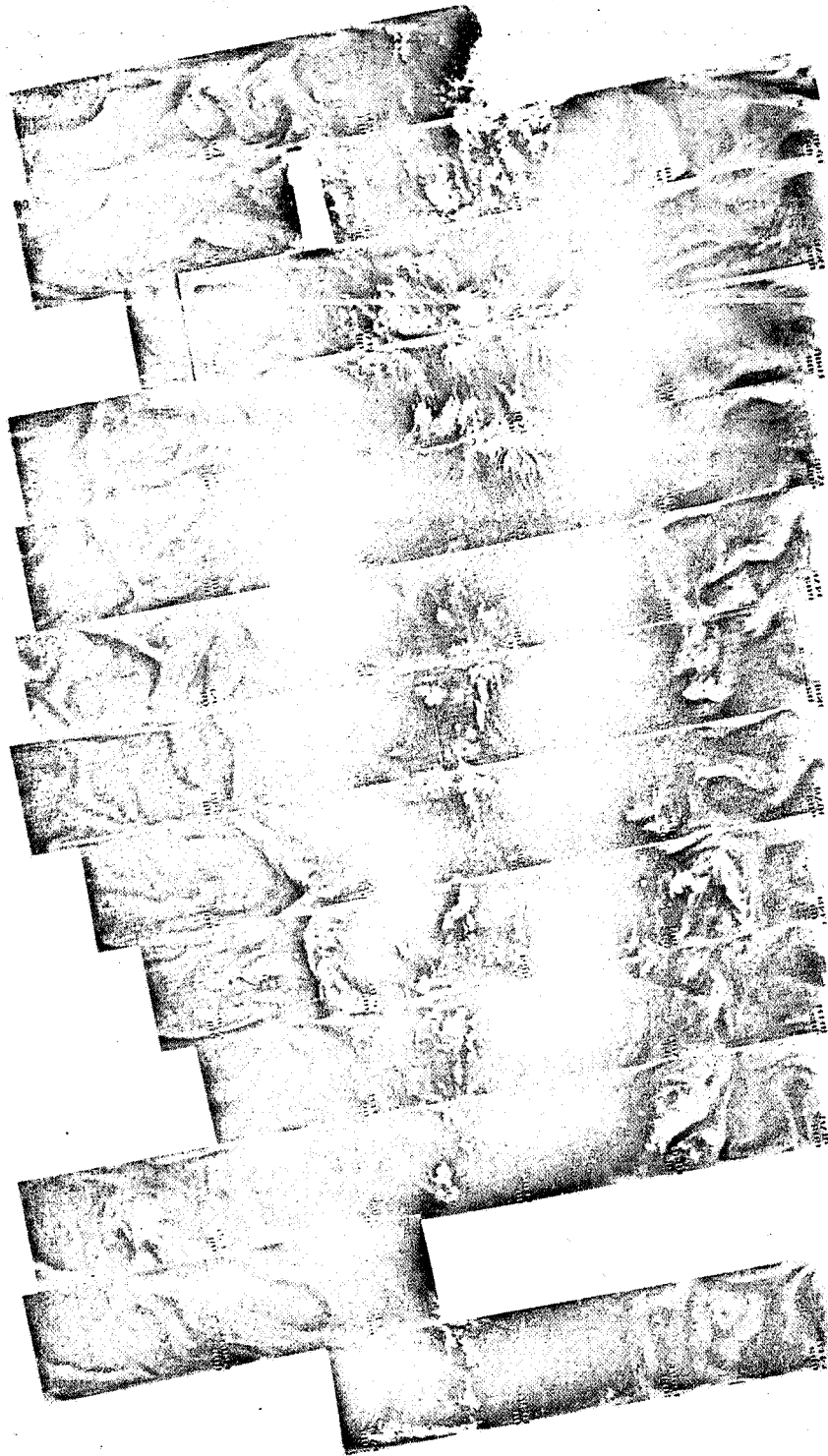
7982 7981 7980 7979 7978 7977 7976 7975 7974 7973 7972 7971 7970

28 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7982 7981 7980 7979 7978 7977 7976 7975 7974 7973 7972 7971 7970

28 JULY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7996 7995 7994 7993 7992 7991 7990 7989 7988 7987 7986 7985 7984 7983

29 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



7996 7995 7994 7993 7992 7991 7990 7989 7988 7987 7986 7985 7984 7983

29 JULY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 1 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 1 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

8009 8008 8007 8006 8005 8004 8003 8002 8001 8000 7999 7998 7997

30 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8009 8008 8007 8006 8005 8004 8003 8002 8001 8000 7999 7998 7997

30 JULY 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

8023 8022 8021 8020 8019 8018 8017 8016 8015 8014 8013 8012 8011 8010

31 JULY 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

8023 8022 8021 8020 8019 8018 8017 8016 8015 8014 8013 8012 8011 8010

31 JULY 1974

6.7 μ m

SECTION 5

CORRECTIONS TO THE NIMBUS 5 USER'S GUIDE

This section presents all corrections or additions to The Nimbus 5 User's Guide which now are known to be necessary. If additional corrections are required, they will appear in a subsequent catalog. All previous corrections will be carried forward cumulatively into each new catalog.

5.1 THIR Corrections to the User's Guide

Table 5-1
(First presented in Volume 1)

This table replaces Table 2-3 (page 31) in The Nimbus 5 User's Guide.

Table 2-3

THIR Output Voltages versus Equivalent Blackbody Temperatures at
Different Bolometer Temperatures for the 11.5 μ m Channel

		Bolometer Temperature (°C)				
		0	10	20	30	40
Blackbody Temperature (°K)	0*	-0.405	-0.407	-0.413	-0.421	-0.425
	180	-0.618	-0.617	-0.617	-0.617	-0.606
	190	-0.711	-0.709	-0.706	-0.702	-0.685
	200	-0.829	-0.825	-0.820	-0.811	-0.785
	210	-0.976	-0.970	-0.961	-0.946	-0.911
	220	-1.153	-1.144	-1.130	-1.109	-1.062
	230	-1.363	-1.351	-1.332	-1.302	-1.240
	240	-1.606	-1.591	-1.565	-1.526	-1.448
	250	-1.886	-1.867	-1.834	-1.783	-1.686
	260	-2.202	-2.178	-2.137	-2.074	-1.955
	270	-2.555	-2.526	-2.476	-2.399	-2.256
	280	-2.946	-2.911	-2.851	-2.759	-2.589
	290	-3.375	-3.334	-3.262	-3.153	-2.954
	300	-3.841	-3.793	-3.709	-3.582	-3.352
	310	-4.345	-4.289	-4.192	-4.045	-3.781
	320	-4.886	-4.822	-4.711	-4.543	-4.241
	330	-5.463	-5.391	-5.264	-5.074	-4.733

*Space level

Table 5-2
(First presented in Volume 1)

This table replaces Table 2-4 (page 32) in The Nimbus 5 User's Guide.

Table 2-4

**THIR Output Voltages versus Equivalent Blackbody Temperatures at
Different Bolometer Temperatures for the 6.7 μm Channel**

		Bolometer Temperature ($^{\circ}\text{C}$)				
		0	10	20	30	40
Blackbody Temperature ($^{\circ}\text{K}$)	0*	-0.507	-0.518	-0.532	-0.556	-0.576
	180	-0.607	-0.618	-0.632	-0.655	-0.674
	185	-0.644	-0.654	-0.669	-0.692	-0.710
	190	-0.692	-0.702	-0.716	-0.739	-0.756
	195	-0.752	-0.762	-0.776	-0.798	-0.814
	200	-0.827	-0.838	-0.851	-0.873	-0.888
	205	-0.921	-0.931	-0.944	-0.966	-0.978
	210	-1.035	-1.045	-1.058	-1.078	-1.089
	215	-1.172	-1.182	-1.195	-1.215	-1.223
	220	-1.337	-1.347	-1.359	-1.379	-1.383
	225	-1.533	-1.543	-1.554	-1.573	-1.573
	230	-1.764	-1.774	-1.784	-1.801	-1.797
	235	-2.033	-2.043	-2.052	-2.068	-2.059
	240	-2.350	-2.355	-2.363	-2.378	-2.362
	245	-2.704	-2.714	-2.721	-2.734	-2.711
	250	-3.115	-3.125	-3.131	-3.142	-3.111
	255	-3.582	-3.592	-3.597	-3.605	-3.565
	260	-4.110	-4.119	-4.122	-4.127	-4.077
	265	-4.704	-4.714	-4.715	-4.717	-4.656
	270	-5.367	-5.378	-5.376	-5.375	-5.300

*Space level

The following information supplements that in paragraph 2.4.1.2 (page 34) in The Nimbus 5 User's Guide. (First presented in volume 5.)

Beginning with orbit 3581 (4 September 1973), the ten-step gray scale will no longer be attached to each orbit of 70mm archival film. However, one gray scale will be attached at the beginning and end of each reel of archival film. A user who requests THIR imagery recorded after orbit 3581 will be furnished a gray scale wedge only if he specifically requests it.

5.2 SCMR Corrections to the User's Guide

There are no SCMR corrections to the User's Guide.

5.3 ESMR Corrections to the User's Guide (First presented in Volume 3)

The following information replaces the next to the last paragraph on page 103 (Section 4.4.5) of The Nimbus 5 User's Guide.

ESMR grid print maps of calibrated brightness temperatures are available from NSSDC in three different map projections. These are: (1) Polar stereographic, (2) Mercator, and (3) Horizontal stereographic (Bull's-eye). Program options permit contouring of the grid print maps, printing of map titles, and using fewer than the full 78 beam positions.

For each map requested, the following information is needed:

- Satellite and sensor
Nimbus 5 ESMR
- Map type
 1. Polar stereographic
 2. Mercator
 3. Horizontal stereographic (Bull's-eye)
- Map scale
Scale of map in millions
- Geographic area
 1. For a Polar stereographic map specify - latitude of map perimeter, and orientation of 0° meridian line. The standard position for the 0° meridian on a northern hemisphere map is 10° clockwise below a left-right horizontal line through the map's pole.

On a southern hemisphere map, 0° meridian is 10° counterclockwise below a left-right horizontal line through the map's pole. For other orientations of the 0° meridian, the user must specify, preferably with a sketch, the orientation desired.
 2. For a Mercator map specify - latitude of upper and lower edges of map, and longitudes of left and right edges of map. Longitudes are measured west from Greenwich (0°).
 3. For a Horizontal stereographic (Bull's-eye) map specify - latitude and longitude (west from Greenwich) of map center, pseudo co-latitude

of map perimeter (number of degrees of latitude from map center), and azimuth of 0° longitude line. If not specified, the azimuth will be located as it is for the Polar stereographic map.

- Calendar date of data requested
- Data orbit number(s)
- Beginning and end time (GMT) of the date for each map requested. These times are derived from information in Table 2-2 of each Nimbus 5 Data Catalog.

Optional specifications for each map are the following:

- ESMR beam parameters
The user can specify, or limit, the range of beam positions used to produce each map. If no specifications are made, beam positions 1 through 78 are used.
- Map title
For each map, the user may specify a title containing up to 70 characters.
- Contouring
Normally, maps are printed without contours. To obtain contoured maps, the user must specify a contour base (or lower temperature limit e. g. , 130°K) and a contouring interval (e. g. , contour every 10°K). The contour program fills in the first contour interval above the contour base with the letter "A", the next interval is blank, the next is filled in with the letter "B", etc.

(The following was first presented in Volume 2.)

Table 4-4 of The Nimbus 5 User's Guide will not be supplied. Table 5-3 is to be used in its place.

As stated in The Nimbus 5 Data Catalog, vol. 1, the antenna properties changed after final calibration and rendered those numbers useless. The cause of the gross variations in antenna properties which were observed soon after launch has been determined to be a cross-polarized grating lobe. This finding has been confirmed through measurements on the engineering model and on the proto/flight model of the ESMR, and through theoretical calculations. The problem does not exist for the near-nadir beam positions, so those positions are unaffected. A quantitative discussion of this problem is included in the report of the Nimbus 5 ESMR Anomaly Review Committee.

An empirical calibration has been developed which removes the effect of the lobe structure and antenna loss, which vary with position, and roughly corrects for angular variations in viewing geometry. In this calibration scheme the antenna loss ratio is assumed to be 1.56 for all temperatures and beam positions, and a linear correction is applied to the data. The correction is given by:

$$T_i' = A_i T_i + B_i$$

where T_i is the corrected brightness temperature for the i -th beam position and T_i is the brightness temperature calculated with the assumption of a constant antenna loss. A_i and B_i are empirically derived constants given in Table 5-3.

Table 5-3

Constants for Linear Correction of Brightness Temperatures
Corresponding to ESMR Beam Positions

Beam Position	A	B(°K)	Beam Position	A	B(°K)
1	1.058	4	27	0.941	11
2	1.027	10	28	0.947	10
3	0.990	16	29	0.937	11
4	0.980	14	30	0.942	10
5	0.963	17	31	0.963	6
6	0.987	15	32	1.003	-3
7	0.970	17	33	1.002	-3
8	0.961	19	34	0.976	1
9	0.969	18	35	0.988	-1
10	0.980	16	36	1.004	0
11	0.980	17	37-42	1.000	0
12	1.018	10	43	1.002	-3
13	0.999	12	44	0.962	4
14	0.989	13	45	0.960	4
15	0.975	15	46	0.980	2
16	0.974	15	47	0.966	4
17	0.994	10	48	0.966	6
18	1.026	8	49	0.948	10
19	1.038	5	50	0.949	10
20	1.018	13	51	0.934	12
21	1.034	13	52	0.945	13
22	1.099	4	53	0.988	11
23	1.082	9	54	1.019	11
24	1.048	8	55	1.041	11
25	0.986	12	56	1.049	14
26	0.960	10	57	1.042	15

Table 5-3 (Continued)

Beam Position	A	B(°K)	Beam Position	A	B(°K)
58	1.019	16	69	0.955	24
59	1.015	15	70	0.974	22
60	1.012	12	71	0.941	26
61	0.993	13	72	0.969	22
62	0.976	15	73	0.949	30
63	0.998	12	74	0.967	22
64	0.983	14	75	0.956	27
65	0.998	14	76	0.959	28
66	0.970	19	77	0.969	26
67	0.982	18	78	1.030	13
68	0.980	19			

5.4 ITPR Corrections to the User's Guide

The following tables replace Table 5-3 of The Nimbus User's Guide.

Table 5-4
(First presented in volume 1)

ITPR Calibration Constants for the Period 12/12/72 - 2/6/73

$R_s = a_0 + a_1 V$		
R_s = radiance of the scene (mw/m ² ster cm ⁻¹)		
V = digital counts		
Channel	a_0^*	a_1
1	1.0495	-0.001773
2	141.78	-0.1813
3	166.93	-0.2046
4	173.02	-0.2065
5	174.02	-0.1940
6	174.99	-0.1977
7	170.18	-0.1995

*The calibration constant a_0 now includes the radiance of the chopper reference blackbody.

Table 5-5
(First presented in volume 2)

ITPR Calibration Constants for the Period 2/7/73 - 3/31/73

$$R_s = a_0 + a_1 V$$

R_s = radiance of the scene (mw/m² ster cm⁻¹)

V = digital counts

Channel	a_0 *	a_1
1	1.061	-0.001782
2	141.775	-0.1801
3	166.840	-0.2037
4	172.974	-0.2054
5	174.034	-0.1931
6	175.040	-0.1963
7	170.288	-0.1988

*The calibration constant a_0 now includes the radiance of the chopper reference blackbody.

Table 5-6
(First presented in volume 3)

ITPR Calibration Constants for the Period 4/1/73 - 5/31/73

$$R_s = a_0 + a_1 V$$

R_s = radiance of the scene (mw/m² ster cm⁻¹)

V = digital counts

Channel	a_0 *	a_1
1	1.056	-0.001783
2	141.6	-0.1815
3	168.8	-0.2057
4	173.0	-0.2068
5	174.0	-0.1946
6	174.9	-0.1976
7	170.1	-0.1987

*The calibration constant a_0 now includes the radiance of the chopper reference blackbody.

Table 5-7
(First presented in volume 4)

ITPR Calibration Constants for the Period 6/1/73 - 7/31/73

$R_s = a_0 + a_1 V$		
R_s = radiance of the scene (mw/m ² ster cm ⁻¹)		
V = digital counts		
Channel	a_0 *	a_1
1	1.049	-0.001758
2	141.8	-0.1820
3	166.8	-0.2061
4	173.1	-0.2072
5	174.1	-0.1954
6	175.2	-0.1982
7	170.3	-0.1985

*The calibration constant a_0 now includes the radiance of the chopper reference blackbody.

The following are changes to the ITPR material in Section 5 of The Nimbus 5 User's Guide: (First presented in Volume 2)

- The table, Nimbus 5 Compacted Data Format, at the bottom of page 125 should read:

<u>Word</u>	<u>Format</u>	<u>Description</u>
1	I	GMT (seconds)
2	Spec 1	Julian Day and Year
3 - 162	Spec 2 (F1, F3)	Calibrated IR Data
163 - 182	F1	Latitude
183 - 202	F1	Longitude
203 - 222	F1	Zenith
223	I	Grid Type (0 = Nadir) (1, 2, or 3 = Scan)
224 - 225	-	Zero Fill

- On page 126 in the paragraph describing Spec 2, the last two lines of that paragraph should read:

". . . 4-word pattern will be repeated thru word 162, resulting in 40 sets of IR measurements."

- The next paragraph (on page 126, after description of Spec 2) should read:

"Each data record will contain 5 major frames of data (225 24-bit words for each major frame) with a total of 1125 24-bit words, or 450 60-bit words. Because major frames will contain either 34, 36, or 40 earth views for each channel, there will be zero fill in the IR data words when 34 or 36 views are present, and the corresponding latitudes and longitudes will be fictitious. This applies also to data samples which occur during re-trace. Zero fill will be used to produce the constant-length record when the the number of major frames in a day is not a multiple of 5."

- In the next paragraph the following changes should be made:

Line 1: ". . . with a density of 556 6-bitbytes . . ."
should read: ". . . with a density of 800 6-bitbytes . . ."

Line 3: ". . . per day at 320 major frames. . . about 640 records"
should read: ". . . per day at 400 major frames. . . about 960 records"

Line 4: ". . . will contain about 5 days . . ."
should read: ". . . will contain about 4 days . . ."

5.5 SCR Corrections to the User's Guide

The following information supplements the SCR information in the User's Guide and has been derived from post-launch information. (First presented in volume 3.)

The filters of the A and B channels have minor leaks at short wavelengths. Corrections for these leaks are made using the radiance measured by channel C4 (11.5 μ m window channel) in the equation,

$$R'_i = R_i (1 + \gamma_i) - a_i \gamma_i C_4,$$

where R_i is the measured channel i Radiance and R'_i is the corrected radiance. Table 5-7 gives values of γ and $a\gamma$ for the A channels and channel B4. Corrections are of order 1-2 radiance units ($\text{mw}/\text{m}^2 \text{ ster cm}^{-1}$) for the A channels. This is small compared with typical measured radiances of 80 units, but still 5-10 times larger than the rms noise. The correction to B4 is normally about 5 radiance units.

The B difference channels are not affected by leaks since the differencing operation causes the leaks to cancel exactly. The equation

$$R_{ij} = R_i + (R_i - R_j)\beta_{ij},$$

where R_{ij} is the calculated channel B_{ij} radiance and R_i is the measured channel B_i radiance, is used to derive the B difference channel radiances (B12, B23, and B34) from the measured B channel radiances (B1, B2, B3, and B4). Table 5-8 gives the coefficients β_{ij} .

Table 5-8

Correction Coefficients γ and $a\gamma$ for the SCR Temperature Sounding Channels

Channel	γ	$a\gamma$
A1	0.0305	0.015
A2	0.0235	0.0105
A3	0.0146	0.0057
A4	0.0595	0.025
B4	0.153	0.0165

Table 5-9

SCR B Difference Channel Coefficients β

Channel	β
B12	9.50
B23	10.05
B34	4.83

Figure 5-1 gives the experimenter's current best estimates of the weighting functions of the A channels and B4, when corrected as above, and of the B difference channels. These channels measure emission from carbon dioxide in the ν_2 band near $15 \mu\text{m}$. The weighting functions were derived for a climatological mean temperature profile and, to a good approximation, are independent of temperature profile for the range of temperature which occurs in the atmosphere. These weighting functions are a compromise between theoretical computations, using spectral line parameters together with measured filter transmission profiles, and pre-launch test results for the flight instrument. This method is similar to the one used for the Nimbus 5 SCR and was described in more detail by Barnett et al (1972).

5.6 NEMS Corrections to the User's Guide.

There are no NEMS corrections to the User's Guide.

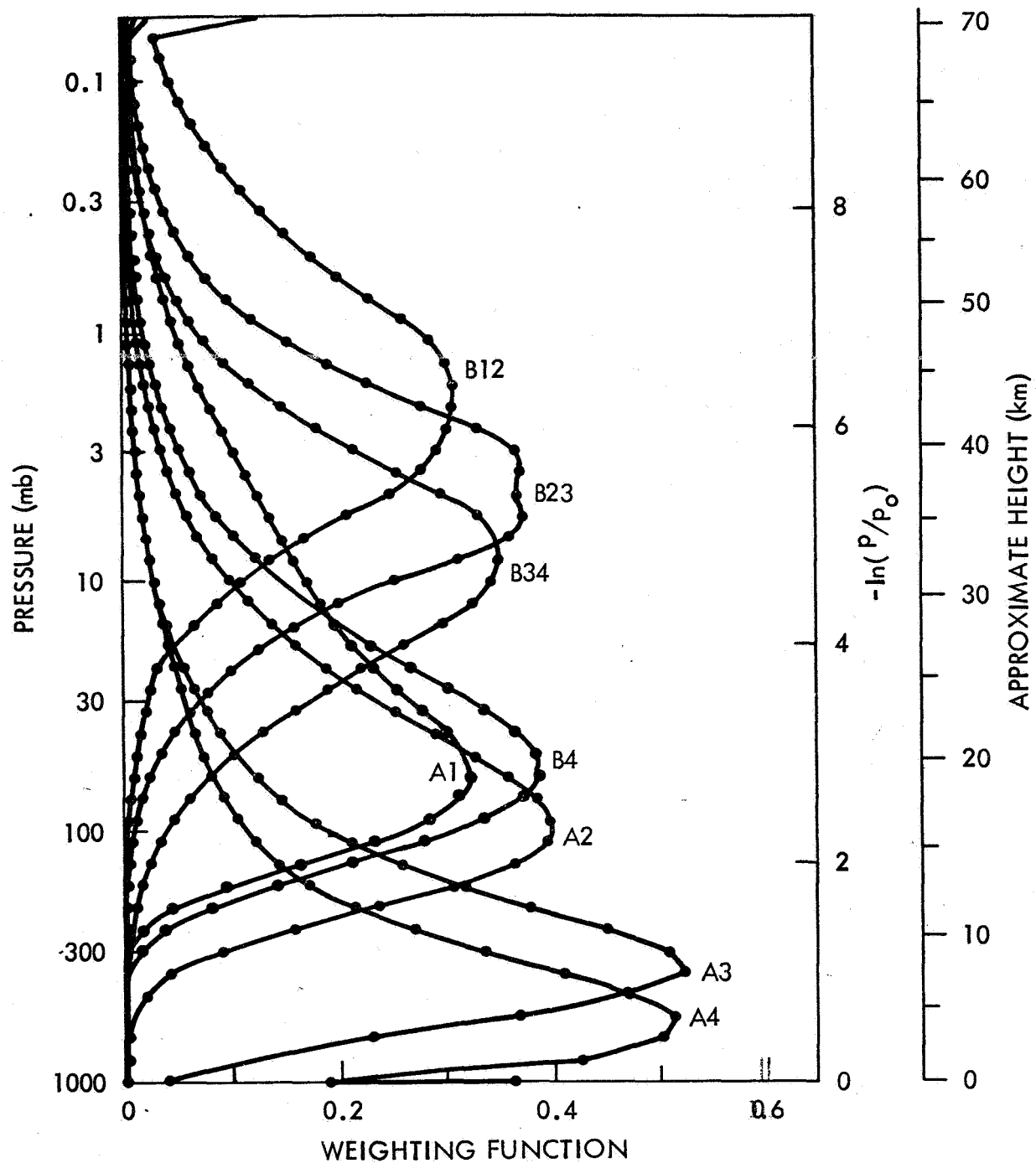
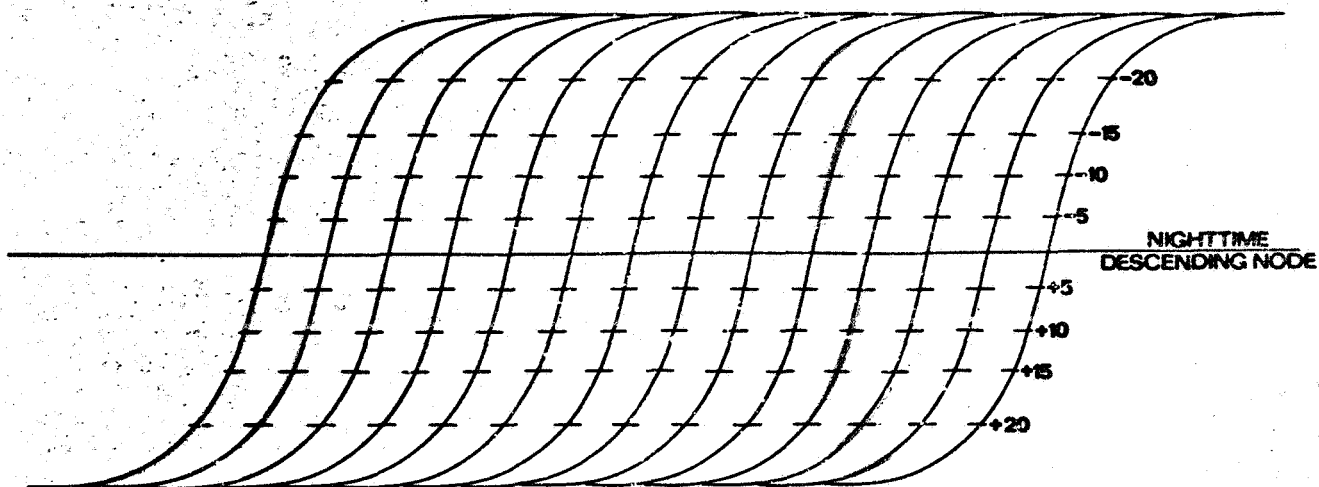
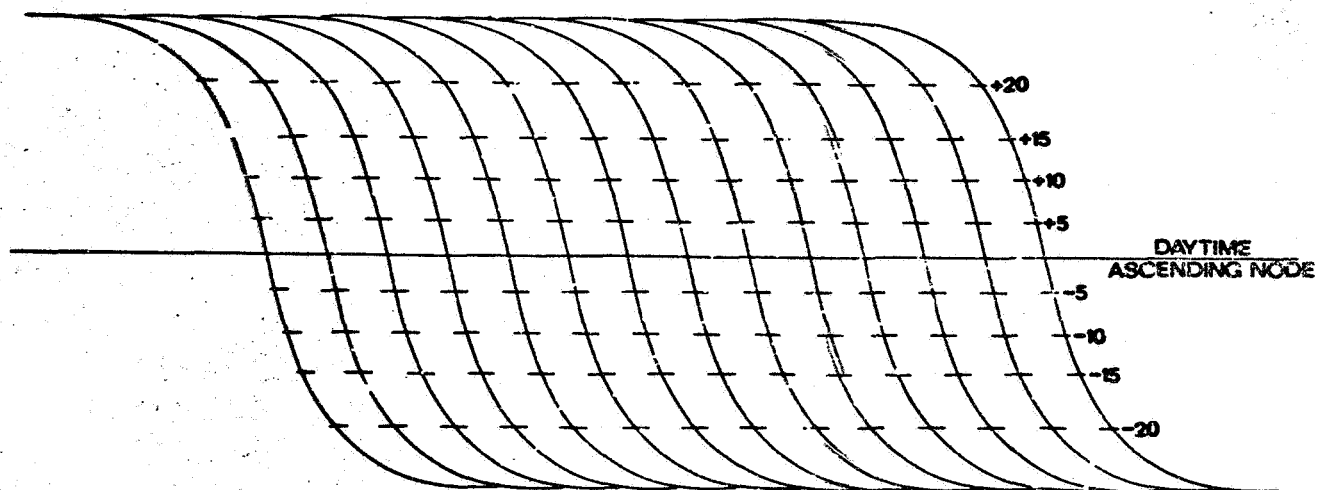


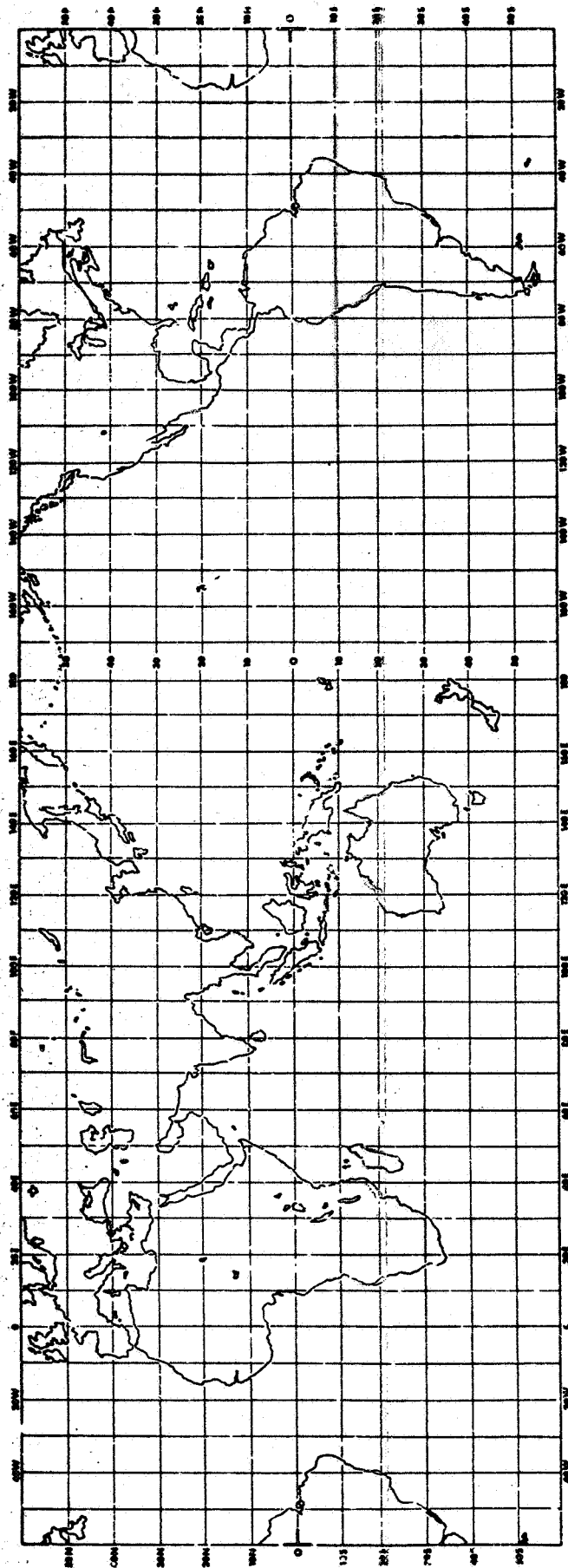
Figure 5-1. Weighting Functions of the Temperature Sounding Channels of the Nimbus 5 SCR. The height scale is approximate. The abscissa is a weighting function on an arbitrary scale.



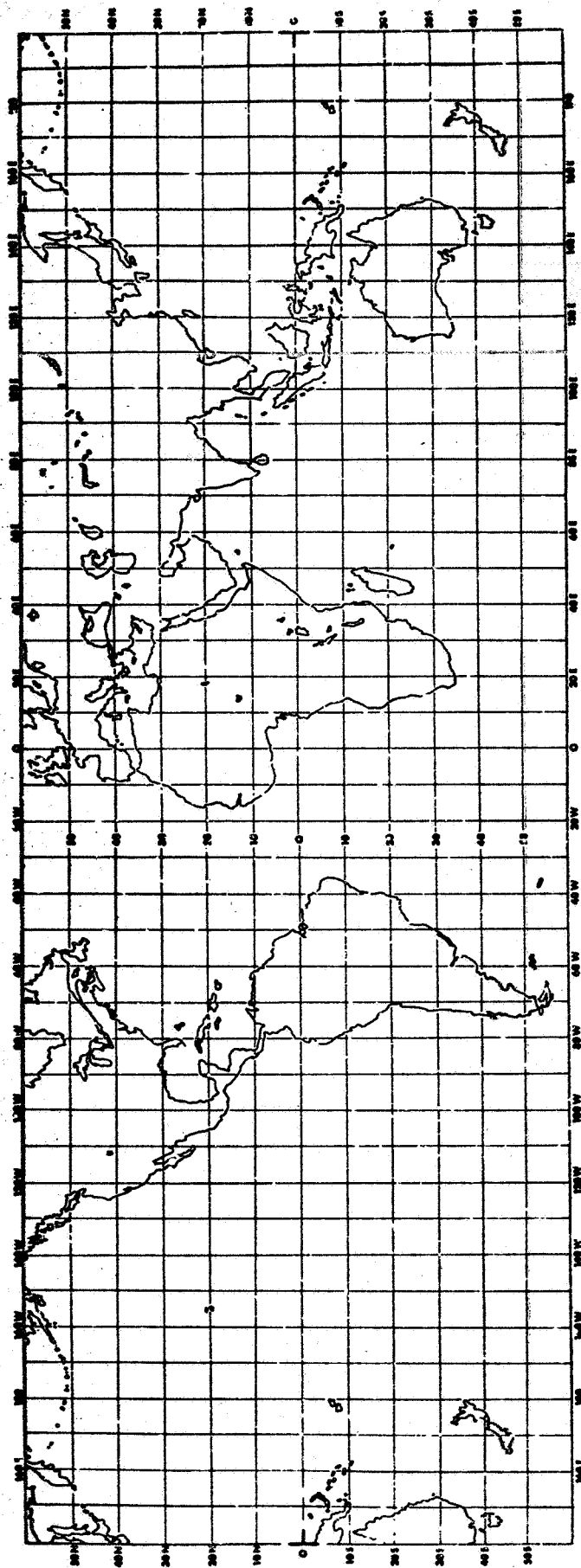
NIMBUS SUBSATELLITE TRACKS OVERLAY



NIMBUS SUBSATELLITE TRACKS OVERLAY



Location Guide
Average Scale for Nimbus
THIR Nighttime Monotages



Location Guide
Average Scale for Nimbus
THIR Daytime Montages